

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 August 2002 (08.08.2002)

PCT

(10) International Publication Number
WO 02/061087 A2

(51) International Patent Classification⁷: **C12N 15/12**,
C07K 14/705, 16/28, G01N 33/53

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(21) International Application Number: PCT/US01/50107

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(22) International Filing Date:
19 December 2001 (19.12.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/257,144 19 December 2000 (19.12.2000) US

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 60/257,144 (CIP)
Filed on 19 December 2000 (19.12.2000)

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:

— *without international search report and to be republished upon receipt of that report*

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 02/061087 A2

(54) Title: ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS (GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH ANTIGENIC PEPTIDES

(57) Abstract: The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known antibodies.

ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS
(GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH
ANTIGENIC PEPTIDES

5 CROSS-REFERENCE TO RELATED APPLICATIONS

[1] The present application claims priority from United States provisional patent application No. 60/257,144, filed December 19, 2000 and presently pending.

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BACKGROUND

[4] G protein-coupled receptors (GPCRs) are a large group of proteins that transmit signals across cell membranes. In general terms, GPCRs function somewhat like doorbells.
15 When a molecule outside the cell contacts the GPCR (pushes the doorbell), the GPCR changes its shape and activates "G proteins" inside the cell (similar to the doorbell causing the bell to ring inside the house, which in turn causes people inside to answer the door). GPCRs are like high-security doorbells because each GPCR responds to only one specific kind of signaling molecule (called its "endogenous ligand"), kind of like a high-tech door
20 lock that responds to only one fingerprint. Part of the GPCR is located outside the cell (the "extracellular domain"), part spans the cell's membrane (the "transmembrane domain"), and part is located inside the cell (the "intracellular domain"). Thus, GPCRs are embedded in the outer membrane of a cell and recognize and bind certain signaling molecules that are present in the spaces surrounding the cell. GPCRs are used by cells to keep an eye on the cells' own
25 activity and on the environment. In organisms that have many cells, the cells use GPCRs to talk to each other.

[5] GPCRs are important to the pharmaceutical industry and other industries. For example, many drugs, including some antibody-based drugs, act by binding to specific GPCRs and initiating or inhibiting their intracellular actions, and diagnostics and therapeutics
30 based on GPCRs or on antibodies for GPCRs are becoming increasingly important.

[6] General concepts about GPCRs are discussed in more scientific terms in the following paragraphs.

[7] The GPCR superfamily has at least 250 members, Strader et al., FASEB J., 9:745-754 (1995); Strader et al., Annu. Rev. Biochem., 63:101-32 (1994). GPCRs play important

roles in diverse cellular processes including cell proliferation and differentiation, leukocyte migration in response to inflammation, gene transcription, vision (the rhodopsins), smell (the olfactory receptors), neurotransmission (muscarinic acetylcholine, dopamine, and adrenergic receptors), and hormonal response (luteinizing hormone and thyroid-stimulating hormone receptors). Strader et al., *supra*; U.S. Patent nos. 5,994,097 and 6,063,596. Many important drugs produce their therapeutic actions through their interaction with GPCRs.

[8] Nucleotide and amino acid sequences for many GPCRs have been reported and can be found in public databases such as GenBank and GenPept. Generally speaking, different GPCRs show both structural and sequence similarities. The most conserved domains of GPCRs are the transmembrane domains and the first two cytoplasmic loops. GPCRs range in size from under 400 to over 1000 amino acids. Coughlin, S. R., *Curr. Opin. Cell Biol.* 6:191-197 (1994). They contain seven hydrophobic transmembrane regions that span the cellular membrane and form a bundle of antiparallel alpha helices. McKee K.K., *supra*. The bundle of helices forming the transmembrane regions provide many structural and functional features of the receptor. In most cases, the bundle of helices form a pocket that binds a signaling molecule. However, when the binding site accommodates larger molecules, the extracellular N-terminal segment or one or more of the three extracellular loops participate in binding and in subsequent induction of conformational change in the intracellular portions of the receptor. These helices are joined at their ends by three intracellular and three extracellular loops. GPCRs also contain cysteine disulfide bridges between the second and third extracellular loops, an extracellular N-terminus, and a cytoplasmic or intracellular C-terminus. The N-terminus is often glycosylated, while the C-terminus is generally phosphorylated. A conserved, acidic-Arg-aromatic triplet present in the second cytoplasmic loop may interact with G Proteins. Most GPCRs contain a characteristic consensus pattern. Watson, S. and S. Arkinstall, *The G protein Linked Receptor Facts Book*, Academic Press, San Diego, CA (1994); Bolander, F. F. *Molecular Endocrinology*, Academic Press, San Diego, CA (1994).

[9] Although GPCRs have many features in common, each GPCR has its own unique characteristics as well. GPCRs have varying nucleotide and amino acid sequences, and varying antigenicity. GPCRs bind a diverse array of specific, extracellular signaling molecules (which can also be referred to as "ligands") including peptides, cytokines, hormones, neurotransmitters, growth factors, and specialized stimuli such as photons,

flavorants, and odorants. Identified ligands include, for example, purines, nucleotides (*e.g.*, adenosine, cAMP, NTPs), biogenic amines (*e.g.*, epinephrine, norepinephrine, dopamine, histamine, noradrenaline, serotonin), acetylcholine, peptides (*e.g.*, angiotensin, calcitonin, chemokines, corticotropin releasing factor, galanin, growth hormone releasing hormone, gastric inhibitory peptide, glucagon, neuropeptide Y, neurotensin, opioids, thrombin, secretin, somatostatin, thyrotropin releasing hormone, vasopressin, vasoactive intestinal peptide), lipids and lipid-based compounds (*e.g.*, cannabinoids, platelet activating factor), excitatory and inhibitory amino acids (*e.g.*, glutamate, GABA), ions (*e.g.*, calcium), and toxins.

[10] In general, a GPCR binds only one type of signaling molecule and GPCRs are classified according to subfamilies based upon their selectivity and specificity for a particular ligand. When the ligand for a receptor is not known, the receptor is known as an orphan receptor. The extracellular domain interacts with or binds to certain signaling molecules or ligands located outside of the cell. The binding of a ligand to the extracellular domain alters the conformation of the receptor's intracellular domain causing the activation of a G protein. The G protein then activates or inactivates a separate plasma-membrane-bound enzyme or ion channel. This chain of events alters the concentration of one or more intracellular messengers (second messengers) such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . These, in turn, alter the activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal. Baldwin, J.M., Curr. Opin. Cell Biol. 6:180-190 (1994). The G protein is deactivated by hydrolysis of GTP by GTPase. U.S. Patent Nos. 5,994,097 and 6,063,596.

[11] GPCR mutations, both of the loss-of-function and of the activating variety, have been associated with numerous human diseases, Coughlin, *supra*. For example, retinitis pigmentosa may arise from either loss-of-function or activating mutations in the rhodopsin gene. Somatic activating mutations in the thyrotropin receptor cause hyperfunctioning thyroid adenomas, Parma, J. et al., Nature 365:649-651 (1993). Parma et al. indicate that it may be possible that certain G protein-coupled receptors susceptible to constitutive activation may behave as proto-oncogenes. Interestingly, GPCRs have functional homologues in human cytomegalovirus and herpesvirus, so GPCRs may have been acquired during evolution for viral pathogenesis, Strader et al., FASEB J., 9:745-754 (1995); Arvanitakis et al., Nature, 385:347-350 (1997); Murphy, Annu. Rev. Immunol. 12:593-633 (1994). The

importance of the GPCR superfamily is further highlighted by the recent discoveries that some of its family members, the chemokine receptors CXCR4/Fusin and CCR5, are co-receptors for T cell-tropic and macrophage-tropic HIV virus strains, respectively, Alkhatib et al., Science, 272:1955 (1996); Choe et al., Cell, 85:1135 (1996); Deng et al., Nature, 381:661 (1996); Doranz et al., Cell, 85:1149 (1996); Dragic et al., Nature, 381:667 (1996); Feng et al., Science, 272:872 (1996). It is conceivable that blocking these receptors may prevent infection by the human immunodeficiency (HIV) virus. Other GPCR-related items include regulating cellular metabolism and diagnosing, treating and preventing particular diseases associated with particular GPCRs.

10 [12] One important way to evaluate GPCRs and antibodies for GPCRs as novel drug targets and for other purposes such as diagnostics is through the creation and use of databases. Such databases can provide large amounts of information about genes, proteins, and other biological matter. An excellent example of such a database is the GPCR database created and maintained by LifeSpan BioSciences, Inc., Seattle, Washington, USA, which
15 database is available by subscription to researchers and others needing such information. The information in the databases can, for example, be searched, compared, and analyzed. The compilation of such databases, as well as the searching, comparing, etc., of the databases, can be referred to as the field of "bioinformatics." Investigations largely related to genes, such as the information found from the sequencing of the human genome, can be called "genomics"
20 while similar activities on proteins can be called "proteomics."

[13] There has gone unmet a need for improved systems, compositions, methods, and the like relating to improved antigenicity of peptides from GPCRs and antibodies relating thereto. The present invention provides these and other advantages.

SUMMARY

25 [14] The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention
30 provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known

antibodies. The present invention also provides improved methods of selecting antigenic peptides from any desired protein or polypeptide, as well as antigenic peptides so produced and antibodies against such antigenic peptides.

[15] The antigenic peptides and antibodies herein can be used, for example, to detect the presence or absence of corresponding GPCRs. They can be used to diagnose a variety of diseases and disorders in which GPCRs are involved, such as, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocyoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[16] The association of particular GPCRs with particular diseases, disorders or conditions will be apparent to a person of ordinary skill in the art in view of the present application, and thus the association with the antibodies of the present invention to the corresponding diseases, disorders or conditions.

5 [17] Thus, in one aspect the present invention provides isolated antigenic peptides according to any one of SEQ ID NOS. 692-2292. The isolated antigenic peptides also comprise an amino acid sequences that are at least about 90% or 95% identical to such sequences, or be an analog of such sequences, or comprise a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids set forth in any one of such
10 sequences or contain no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any of such sequences. The present invention also provides antibodies, particularly isolated antibody having high specificity and high affinity or avidity for a particular GPCR or other target polypeptide or protein, generated using the antigenic peptides discussed herein.

15 [18] The present invention also provides isolated nucleic acid molecules encoding an antigenic peptide or antibody as described herein. The molecule can encode a naturally occurring human antigenic peptide. In some embodiments, the present invention provides processes for producing an isolated polynucleotide can comprise hybridizing a nucleotide encoding an antigenic peptide as discussed herein to DNA such as genomic DNA under
20 stringent or highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

[19] The present invention also provides kits and assays, such as kits for the detection of antibodies against a particular GPCR or other target polypeptide in a sample comprising: a) an isolated antigenic peptide as discussed herein and derived from the particular GPCR, and
25 b) at least one of a reagent or a device for detecting the antibodies, or comprising: a) an isolated antibody as described herein, and b) at least one of a reagent or a device for detecting the antibody. The assays include detection of a particular GPCR in a sample, comprising: a) providing an isolated antigenic peptide, b) contacting the isolated antigenic peptide corresponding to the particular GPCR with the sample under conditions suitable and for a
30 time sufficient for the antigenic peptide to bind to one or more antibodies specific for the target protein present in the sample, to provide an antibody-bound target protein, and c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the

sample contains the particular GPCR. The assays can further comprise the step of binding the isolated antigenic peptide or the antibody to a solid substrate, and the sample can be an unpurified sample, for example from a human being.

[20] The assay can be selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

[21] In other aspects, the present invention provides methods of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence such as a polypeptide or protein wherein the antigenic peptide has a length of about 5 to about 100 amino acids, typically 6 amino acids to about 50 amino acids, and preferably 7 amino acids to about 20 amino acids. The methods comprise: a) searching the candidate polypeptide sequence using a comparison window of the length, and b) selecting against amino acid sequences of the length and having at least 1 to 3 or 4 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, the method comprises selecting against at least 5 to all of the characteristics.

[22] The methods can comprise, independently or in addition, selecting against amino acid sequences of the desired length having at least one of the following characteristics 1) sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide that can be different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences. The posttranslational modification sites can be phosphorylation or glycosylation sites. The methods can also comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

[23] These and other aspects, features, and embodiments are set forth within this application, including the following Detailed Description and attached drawings. The present invention comprises a variety of aspects, features, and embodiments; such multiple aspects,

features, and embodiments can be combined and permuted in any desired manner. In addition, various references are set forth herein, including in the Cross-Reference To Related Applications, that discuss certain compositions, apparatus, methods, or other information; all such references are incorporated herein by reference in their entirety and for all their teachings and disclosures, regardless of where the references may appear in this application.

BRIEF DESCRIPTION OF THE DRAWING

[24] Figure 1 depicts representative examples of the nucleotide and amino acid sequences of the GPCRs for which antigenic peptides are set forth herein, SEQ ID NOS. 1 - 691.

10 [25] Figure 2 depicts amino acid sequences for the antigenic peptides for the GPCRs herein, SEQ ID NOS. 692-2292.

[26] Figure 3 depicts a listing of GPCRS for which commercially available antibodies are putatively available.

DETAILED DESCRIPTION

15 A. INTRODUCTION AND OVERVIEW

[27] Diseases such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases are serious health problems in the modern world. Any improvement in the diagnosis, treatment or other remediation of such diseases is a significant advance for millions of people. The present invention provides methods of identifying and selecting desirable antigenic peptides for GPCRs and other desired target or candidate proteins and polypeptides. The present invention also provides the antigenic peptides themselves, as well as antibodies against the antigenic peptides (and against proteins or polypeptides containing such antigenic peptides), and related diagnostics, antibody-based therapeutics directed to certain diseases and conditions, and other helpful compositions, systems, kits, assays and the like. The compositions, methods, and the like can be useful, for example, as agonists, antagonists, probes, and otherwise as may be desired.

[28] The antigenic peptides have been carefully selected using specific selection criteria and methodologies set forth herein to take advantage of particularly advantageous regions of the GPCRs from which they have been derived to provide unusually specific and

immunogenic antigens. These antigenic peptides are particularly useful for producing highly specific antibodies against the antigenic peptides, which, in turn, also means antibodies that are highly specific for the corresponding GPCRs containing the antigenic peptides. Accordingly, the antigenic peptides of the present invention, and the antibodies produced
5 therefrom, are particularly useful for high specificity, low noise diagnostics and, in the case of the antibodies, for certain antibody-based therapeutics, as well as methods, kits, systems, and the like incorporating or based on such antigenic peptides or antibodies.

[29] The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can
10 selectively detect the corresponding GPCR in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected.

15 [30] The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[31] Figure 1 sets forth the DNA and protein sequences for the GPCRs from which the
20 antigenic peptides of the present invention were derived SEQ ID NOS. 1-691. Figure 2 sets forth the amino acid sequences of exemplary antigenic peptides, SEQ ID NOS. 692-2292. The sequences in Figures 1 and 2 are listed according to SEQ ID NO and LSID, which is an identification number assigned to the given sequence in the LifeSpan Biosciences databases. The sequences in Figure 2 also include an identifier LPID, which is also an identification
25 number assigned to the given sequence in the LifeSpan Biosciences databases. Figure 3 depicts GPCRs for which it has been reported that antibodies are commercially available, SEQ ID NOS. 1, 3, 5, 11, 13, 15, 21, 23, 25, 27, 29, 31, 35, 37, 39, 41, 43, 45, 49, 51, 53, 57, 59, 61, 63, 65, 67, 69, 70, 71, 73, 75, 77, 79, 83, 85, 97, 99, 101, 103, 105, 107, 113, 115, 117, 121, 125, 135, 139, 143, 145, 147, 151, 155, 157, 159, 161, 169, 171, 173, 175, 177,
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423, 435, 439, 457, 459, 461, 462, 468, 470, 472, 503, 507, 515, 535, 537, 546, 548, 552, 562, 628, 636; Applicants do not represent that any of the antibodies in Figure 3 that such antibodies are actually commercially available nor that they have any significant specificity nor affinity for the GPCRs reported. For GPCRs for which no antigens or antibodies were previously known, the present invention provides valuable antigenic peptides and antibodies (see, e.g., SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.); for GPCRs for which antigens or antibodies are known, the present invention provides improved antigens in the form of antigenic peptides and improved antibodies (see, e.g., SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, which are antigenic peptides derived from GPCRs for which antibodies are reportedly commercially available). The antigenic peptides and antibodies, and uses and assays, etc., related to the antigenic peptides, are discussed further below.

[32] The discussion herein, including the following passages, has been separated by headings for convenience. The disclosure under a given heading is not restricted to that heading. For example, the discussion in the definitions section is a part of the disclosure of the invention, the discussion on antigenic peptides also contains discussion related to probes and diagnostics, and the discussion on antibodies contains discussion related to therapeutic compositions, etc.

B. DEFINITIONS

[33] The following paragraphs provide a non-exhaustive list of definitions of some of the terms and phrases as used herein. All terms used herein, including those specifically described below in this section, are used in accordance with their ordinary meanings unless the context or definition indicates otherwise. Also unless indicated otherwise, except within

the claims, the use of "or" includes "and" and vice-versa. Non-limiting terms are not to be construed as limiting unless expressly stated (for example, "including" means "including without limitation" unless expressly stated otherwise).

[34] The terms set forth in this application are not to be interpreted in the claims as indicating a "means plus function" relationship unless the word "means" is specifically recited in a claim, and are to be interpreted in the claims as indicating a "means plus function" relationship where the word "means" is specifically recited in a claim. Similarly, the terms set forth in this application are not to be interpreted in method or process claims as indicating a "step plus function" relationship unless the word "step" is specifically recited in the claims, and are to be interpreted in the claims as indicating a "step plus function" relationship where the word "step" is specifically recited in a claim.

[35] "Agonist" indicates a substance, such as a molecule or compound, that interacts with a particular GPCR, for example by binding to the GPCR, to activate, increase, or prolong the amount or the duration of the effect of the biological activity or functionality of the GPCR. Agonists include proteins, nucleic acids, carbohydrates, or any other molecules that bind to and positively modulate the effect of the GPCR. Agonists and other modulators of the particular GPCR can be identified using *in vitro* or *in vivo* assays for G protein-coupled receptor expression or G protein-mediated signaling. For example, assays for agonists and other modulators include expressing a particular GPCR in cells or cell membranes, applying putative modulator compounds in the presence or absence of a specific known or putative ligand and then determining the functional effects on the particular GPCR-mediated signaling. Samples or assays comprising a particular GPCR that are treated with a potential agonist or other modulator are compared to control samples without the agonist or other modulator to examine the extent of modulation. Control samples can be assigned a relative activity value for the particular GPCR of 100%. Agonist activity on a particular GPCR is achieved when the G protein-coupled receptor activity value relative to the control is at least about 110%, optionally about 150%, preferably about 200-500%, or about 1000-3000% or higher. Down-modulation (for example by an antagonist) of a particular GPCR is achieved when the particular GPCR activity value relative to the control is at most about 90%, typically about 80%, optionally about 50% or about 25-0% of the 100% value.

[36] "Aggregate," see Complex.

[37] "Algorithm" refers to a detailed sequence of actions to perform to accomplish some task. In computer programming, refers to instructions given to the computer.

[38] "Allele" or "allelic sequence" indicates an alternative form of the gene encoding the GPCR. Alleles may result from at least one mutation in the nucleic acid sequence and may
5 result in altered mRNAs or in polypeptides whose structure or function may or may not be altered. Any given natural or recombinant gene may have none, one, or many allelic forms. Common mutational changes that give rise to alleles are generally ascribed to natural deletions, additions, or substitutions of nucleotides. Each of these types of changes may occur alone or in combination with the others, one or more times in a given sequence.

10 [39] "Altered" nucleic acid sequences encoding the GPCR include those sequences with deletions, insertions, or substitutions of different nucleotides, resulting in a polynucleotide encoding the same GPCR or a polypeptide variant with at least one substantial structural or functional characteristic of the GPCR. Included within this definition are polymorphisms that may or may not be readily detectable using a particular oligonucleotide probe against the
15 polynucleotide encoding the GPCR. "Altered" proteins may contain deletions, insertions, or substitutions of amino acid residues that produce a silent change and result in a functionally equivalent GPCR. Deliberate amino acid substitutions may be made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, or the amphipathic nature of the residues, as long as the biological or immunological activity of the GPCR is
20 retained. For example, negatively charged amino acids may include aspartic acid and glutamic acid, positively charged amino acids may include lysine and arginine, and amino acids with uncharged polar head groups having similar hydrophilicity values may include leucine, isoleucine, and valine; glycine and alanine; asparagine and glutamine; serine and threonine; and phenylalanine and tyrosine.

25 [40] "Alternative splicing" refers to different ways of cutting and assembling exons to produce mature mRNAs.

[41] "Amino acid" refers generally to any of a class of organic compounds that contains at least one amino group, $-NH_2$, and one carboxyl group, $-COOH$. The alpha-amino acids, $RCH(NH_2)COOH$, are the building blocks from which proteins are typically constructed.
30 Amino acid can also refer to artificial chemical analogues or mimetics of a given amino acid as described, depending on the context.

[42] "Amino acid sequence" refers to a string of amino acids, such as an oligopeptide, peptide, polypeptide, or protein sequence, or a fragment of any of these, including naturally occurring or synthetic molecules and those comprising an artificial chemical analogue or mimetic of a given amino acid. In this context, "biologically active fragments," "biologically functional fragments," "immunogenic fragments," and "antigenic fragments" refer to fragments of the GPCR that are preferably about 15, 25, or 50 or more amino acids in length and that retain a substantial amount of such activity of the GPCR. Where "amino acid sequence" refers to an amino acid sequence of a naturally occurring protein molecule, "amino acid sequence" and like terms are not necessarily limited to the complete native amino acid sequence associated with the recited protein molecule.

[43] "Amplification" indicates the production of additional copies of something, such as a nucleic acid sequence. Amplification can be generally carried out using polymerase chain reaction (PCR) technologies or other technologies such as the cycling probe reaction (CPR) that are well known in the art. *See, e.g.*, Dieffenbach, C. W. and G. S. Dveksler, PCR Primer, a Laboratory Manual, pp.1-5, Cold Spring Harbor Press, Plainview, N.Y. (1995); U.S. Patents Nos. 5,660,988, 5,731,146 and 6,136,533.

[44] "Amplification primers" are oligonucleotides such as natural, analog or artificially created nucleotides that can serve as the basis for the amplification of a selected nucleic acid sequence. They include, for example, both PCR primers and ligase chain reaction oligonucleotides.

[45] "Analog" or "variant" indicates a GPCR or antigenic peptide that has been modified by deletion, addition, modification, or substitution of one or more amino acid residues compared to the wild-type sequence. Analogs encompass allelic and polymorphic variants, and also muteins and fusion proteins that comprise all or a significant part of such GPCR, *e.g.*, covalently linked via side-chain group or terminal residue to a different protein, polypeptide, or moiety (fusion partner). Variants of a particular GPCR protein refer to an amino acid sequence that is altered by one or more amino acids, for example by one or more amino acid substitution, insertion, deletion or modification, or proteins with or without associated native-pattern glycosylation. The variant may have "conservative" changes. Such "conservative" changes generally are well known in the art and readily determinable for a particular GPCR in view of the present application. Conservative changes include, for example, substitutions where a substituted amino acid has similar structural or chemical

properties to the amino acid it replaced (*e.g.*, negatively charged amino acids include aspartic acid and glutamic acid; positively charged amino acids include lysine, arginine, histidine, asparagine, and glutamine; amino acids containing sulfur include methionine and cysteine; polar hydroxy amino acids include serine, threonine, and tyrosine; large hydrophobic amino acids include phenylalanine and tryptophan; small hydrophobic amino acids include alanine, leucine, isoleucine, and valine). A variant may also have "nonconservative" changes which means that the replacement amino acid provides some substantial change in the amino sequence.

[46] A variant preferably retains at least about 90% identity, and more preferably at least about 95% identity. Within certain embodiments, such variants contain alterations such that the ability of the variant to induce an immunogenic response is not substantially eliminated; in some embodiments the ability to an immunogenic response is not substantially diminished. Modifications of amino acid residues may include but are not limited to aliphatic esters or amides of the carboxyl terminus or of residues containing carboxyl side chains, O-acyl derivatives of hydroxyl group-containing residues, and N-acyl derivatives of the amino-terminal amino acid or amino-group containing residues, *e.g.*, lysine or arginine. Guidance in determining which and how many amino acid residues may be substituted, inserted, deleted or modified without diminishing immunological or biological activity may be found in view of the present application using any of a variety of methods and computer programs known in the art, for example, DNASTAR software. Properties of a variant may generally be evaluated by assaying the reactivity of the variant with, for example, antibodies as described herein or evaluating a biological activity characteristic of the native protein as described herein or as known in the art in view of the present application. Certain polynucleotide variants are capable of hybridizing under appropriately stringent conditions to a naturally occurring DNA sequence encoding a particular GPCR protein (or a complementary sequence). Such hybridizing nucleic acid sequences are also within the scope of this invention.

[47] "Antagonist" refers to a molecule which interacts with a particular GPCR, for example by binding to the particular GPCR, and prevents, inactivates, decreases or shortens the amount or the duration of the effect of the biological activity of the GPCR. Antagonists include proteins, nucleic acids, carbohydrates, antibodies, or any other molecules that so affect the GPCR. Antagonists can be identified, for example, using appropriate screens

corresponding to those described for agonists above and elsewhere herein or as would be apparent to those skilled in the art in view of the present application.

[48] "Antibody" indicates one type of binding partner, typically encoded by an immunoglobulin gene or immunoglobulin genes, and refers to, for example, intact monoclonal antibodies (including agonist and antagonist antibodies), polyclonal antibodies, phage display antibodies, and multispecific antibodies (*e.g.*, bispecific antibodies) formed, for example, from at least two intact antibodies. Antibody also refers to fragments thereof, which comprise a portion of an intact antibody, generally the antigen-binding or variable region of the intact antibody that are capable of binding the epitopic determinant. Examples of antibody fragments include Fab, Fab', F(ab')₂, and Fv fragments, diabodies, linear antibodies, single-chain antibody molecules, and multispecific antibodies formed from antibody fragments. See US Patent No. 6,214,984. Antibody fragments may be synthesized by digestion of an intact antibody or synthesized *de novo* either chemically or utilizing recombinant DNA technology. Antibodies according to the present invention have at least one of adequate specificity, affinity and capacity to perform the activities desired for the antibodies. Antibodies can, for example, be monoclonal, polyclonal, or combinatorial. Antibodies that bind GPCR polypeptides can be prepared using intact polypeptides or using fragments containing small peptides of interest as the immunizing antigen. The polypeptide or oligopeptide used to immunize an animal (*e.g.*, a mouse, a rat, or a rabbit) can be derived from the translation of RNA, or synthesized chemically, and can be conjugated to a carrier protein if desired. Commonly used carriers that are chemically coupled to peptides include bovine serum albumin, thyroglobulin, and keyhole limpet hemocyanin (KLH). The coupled peptide is then used to immunize the animal.

[49] "Antigenic determinant" refers to the antigen recognition site on an antigen (*i.e.*, epitope). Such antigenic determinant may also be immunogenic.

[50] "Antisense" refers to any composition containing a nucleic acid sequence that is complementary to a specific nucleic acid sequence. "Antisense strand" refers to a nucleic acid strand that is complementary to the "sense" strand. Antisense molecules may be produced by any method including transcription or synthesis including synthesis by ligating the gene(s) of interest in a reverse orientation to a desired promoter that permits the synthesis of a complementary strand. Once introduced into a cell, the complementary nucleotides can combine with natural sequences produced by the cell to form duplexes and to block either

transcription or translation. The designation "negative" can refer to the antisense strand, and the designation "positive" can refer to the sense strand.

[51] "Biologically active" or "biologically functional," when referring to an antigenic peptide, indicates that the antigenic peptide induces an immunogenic response specific for the antigenic peptide and thus for the GPCR from which it was obtained. A variant, fragment, etc., of an antigenic peptide is "biologically active" or "biologically functional" if the ability to induce the specific immunogenic response is not substantially diminished. The term "not substantially diminished" means retaining a functionality that is at least about 90% of the functionality of the native antigenic peptide. Appropriate assays designed to evaluate such functionality may be designed based on existing assays known in the art in view of the present application, or on the representative assays provided herein.

[52] "Annotation" refers to the provision of helpful or identifying information about a GPCR or other open reading frame (ORF), such as locus name, key words, and Medline references.

[53] "BLAST" refers to the Basic Local Alignment Search Tool, which is a technique for detecting ungapped sub-sequences that match a given query sequence. BLAST can be used as a preliminary step for detecting ORF boundaries.

[54] "BLASTP" refers to a BLAST program that compares an amino acid query sequence against a protein sequence database.

[55] "BLASTX" refers to a BLAST program that compares the six-frame conceptual translation products of a nucleotide query sequence (both strands) against a protein sequence database. BLASTX can be used to create a sub-database of ORFs which may exist on a contig, and to identify the best match between one of these ORFs and a sequence in an external database.

[56] "Buffer" refers to a component in a solution to provide a buffered solution that resists changes in pH by the action of its acid-base conjugate components.

[57] "CDS" refers to the GenBank DNA sequence entry for coding sequence. A coding sequence is a sub-sequence of a DNA sequence that is surmised to encode a gene. A complete gene coding sequence begins with an "ATG" and ends with a stop codon.

[58] "Clone" in molecular biology refers to a vector carrying an insert DNA sequence.

[59] "Cloning" in molecular biology refers to a recombinant DNA technique used to produce multiple, up to millions or more, copies of a DNA sequence. The DNA sequence is

inserted into a small carrier or vector (*e.g.*, plasmid, bacteriophage, or virus) and inserted into a host cell for amplification or expression.

[60] "Cluster" refers to a group of ORFs related to one another by sequence homology. Clusters are generally determined by a specified degree of homology and overlap (*e.g.*, a stringency).

[61] "Comparison window" indicates a segment of any one of the number of contiguous positions selected from the group consisting of from 20 to 600, usually about 50 to about 200, more usually about 100 to about 150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are aligned to enhance sequence similarity. Methods of alignment of sequences for comparison will be readily apparent to a person of ordinary skill in the art in view of the present application.

[62] "Complementary" or "complementarity" refers to the natural binding of polynucleotides by base pairing. For example, the sequence "A-G-T" binds to the complementary sequence "T-C-A." Complementarity between two single-stranded molecules may be "partial," such that only some of the nucleic acids bind, or it may be "complete," such that all of the nucleotides of at least one of the single-stranded molecules binds to corresponding nucleotides of the other single-stranded molecule. The degree of complementarity between nucleic acid strands has significant effects on the efficiency and strength of the hybridization between the nucleic acid strands. This can be of particular importance in amplification reactions, which can depend upon binding between nucleic acids strands, and in the design and use of peptide nucleic acid (PNA) molecules.

[63] "Complex," or "aggregate," indicates a dimer or multimer formed between at least two proteins or other macromolecules, for example a GPCR and its ligand.

[64] "Composition" indicates a combination of multiple substances into a mixture.

[65] "Composition comprising a given amino acid sequence" refers broadly to any composition containing the given amino acid sequence. The composition may comprise a dry formulation, an aqueous solution, or a sterile composition.

[66] "Consensus sequence" refers to the sequence that reflects the most common choice of base or amino acid at each position from a series of related DNA, RNA, or protein sequences. Areas of particularly good agreement often represent conserved functional domains. The generation of consensus sequences has typically been subjected to intensive mathematical analysis.

[67] "Conservative changes" to an amino acid sequence, see Analog.

[68] "Deletion" refers to a change in the amino acid or nucleotide sequence that results in the absence of one or more amino acid residues or nucleotides.

[69] "Derivative" refers to chemical modification of an antigenic peptide, or of an antibody specific for and created from the antigenic peptide. A derivative peptide can be modified, for example, by glycosylation or pegylation.

[70] "Diabodies" refers to one type of antibody comprising small antibody fragments with two antigen-binding sites, which fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) on the same polypeptide chain (V_H - V_L).
10 By using a linker that is too short to allow pairing between the two domains on the same chain, the domains pair with the complementary domains of another chain and create two antigen-binding sites. Diabodies are described, for example, in EP 404,097; WO 93/11161; and Holliger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993).

[71] "Database" refers to a structured format for organizing and maintaining information or data, a collection of data records, in a computer-readable form that can be rapidly and easily retrieved. A database is typically stored in a computer-readable memory. Records may comprise web pages, graphics, audio files, text files, or links. Records may or may not be further broken into fields. Database records are usually indexed and come with a search interface to find records of interest.

20 [72] "E-value" refers to a result of a FASTA analysis. The number indicates the probability that a match between two sequences is due to random chance.

[73] "Expression vector" is a specialized vector constructed so that the gene inserted in the vector can be expressed in the cytoplasm of a host cell.

[74] "FASTA" refers to a modular set of sequence comparison programs used to
25 compare an amino acid or DNA sequence against all entries in a sequence database. FASTA was written by Professor William Pearson of the University of Virginia Department of Biochemistry. The program uses the rapid sequence algorithm described by Lipman and Pearson (1988) and the Smith-Waterman sequence alignment protocol. FASTA performs a protein to protein comparison.

30 [75] "FASTX" refers to a module of the FASTA protocol used to define optimal ORF boundaries while searching for genes. FASTX uses a nucleotide to protein sequence comparison.

[76] "Fragment," see Portion.

[77] "GenBank" refers to a family of public databases comprising nucleic acid and amino acid sequence information, including the GenPept bacterial peptide database.

[78] "Gene" refers to the basic unit of heredity that carries the genetic information for a given RNA or protein molecule. A gene is composed of a contiguous stretch of DNA and contains a coding region that is flanked on each end by regions that are transcribed but not translated. A gene is a segment of DNA involved in producing a biologically active or biologically functional polypeptide chain.

[79] "Heterologous" indicates a nucleic acid that comprises two or more subsequences that are not found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences from unrelated genes arranged to make a new functional nucleic acid, *e.g.*, a promoter from one source and a coding region from another source. Similarly, a heterologous protein indicates that the protein comprises two or more subsequences that are not found in the same relationship to each other in nature (*e.g.*, a fusion protein).

[80] "Hit Threshold" refers to a pre-set E-value or P-value for evaluating sequence matches. For example, this value can be set at $1e-6$ for finding genes; and at $1e-15$ for clustering genes.

[81] "Homology" refers to a degree of complementarity. There may be partial homology or complete homology. The word "identity" may substitute for the word "homology." A partially complementary sequence that at least partially, and substantially, inhibits a corresponding sequence from hybridizing to a target nucleic acid is referred to as "substantially homologous." The inhibition of hybridization of the completely complementary sequence to the target sequence may be examined using a hybridization assay (*e.g.*, Southern or Northern blot, *in situ* hybridization, solution hybridization) under conditions of reduced stringency. A substantially homologous sequence or hybridization probe will compete for and inhibit the binding of a completely homologous sequence to the target sequence under stringency conditions that inhibit non-specific binding but permit specific binding. The absence of non-specific binding may be tested by the use of a second target sequence which lacks even a partial degree of complementarity (*e.g.*, less than about 30% homology or identity). In the absence of non-specific binding, the substantially

homologous sequence or probe will not hybridize to the second, non-complementary target sequence.

[82] **"Humanized antibody"** refers to antibody molecules in which the amino acid sequence in the non-antigen-binding regions has been altered so that the antibody more closely resembles a human antibody, and still retains its original binding ability. Typically, humanized antibodies are human immunoglobulins (recipient antibody) in which residues from a complementarity-determining region (CDR) of the recipient are replaced by residues from a CDR of a non-human species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity, and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Furthermore, humanized antibodies may comprise residues that are found neither in the recipient antibody nor in the imported CDR or framework sequences. These modifications are typically made to further refine and optimize antibody performance. In general, the humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin. For further details see, *e.g.*, Jones et al., *Nature*, 321:522-525 (1986); Reichmann et al., *Nature*, 332:323-329 (1988); and, Presta, *Curr. Op. Struct. Biol.*, 2:593-596 (1992).

[83] **"Identity,"** see Homology.

[84] **"Immunocytochemistry"** refers to the use of immunologic methods, including a specific antibody, to study cell constituents.

25 [85] **"Immunohistochemistry"** refers to the use of immunologic methods, including a specific antibody, to study specific antigens in tissue slices.

[86] **"Immunolocalization"** refers to the use of immunologic methods, including a specific antibody, to locate molecules or structures within cells or tissues.

[87] **"Immunologically active"** refers to the capability of a natural, recombinant, or synthetic GPCR, or any immunogenic fragment thereof, to induce a specific immune response in appropriate animals or cells and to bind with specific antibodies. A polypeptide is "immunologically active" if it is recognized by (*e.g.*, specifically bound by) a B-cell or T-

cell surface antigen receptor. Immunological activity may generally be assessed using well known techniques, such as those summarized in Paul, Fundamental Immunology, 3rd ed., 243-247, Raven Press (1993) and references cited therein. Such techniques include screening polypeptides derived from the native polypeptide for the ability to react with antigen-specific antisera or T-cell lines or clones, which may be prepared in view of the present application using well known techniques. Preferably, an immunologically active portion of a GPCR protein reacts with such antisera or T-cells at a level that is not substantially lower than the reactivity of the full-length polypeptide (*e.g.*, in an ELISA or T-cell reactivity assay). Such screens may generally be performed using methods well known to those of ordinary skill in the art in view of the present application, such as those described in Harlow and Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Press (1988). B-cell and T-cell epitopes may also be predicted via computer analysis.

[88] "Immune response" refers to any of the body's immunologic reactions to an antigen such as antibody formation, cellular immunity, hypersensitivity, or immunological tolerance.

[89] "Insertion" and "addition" when referring to a change in a nucleotide or amino sequence indicate the addition of one or more nucleotides or amino acid residues, respectively, to the sequence.

[90] "*In situ* hybridization" refers to use of a nucleic acid probe, typically a DNA or RNA probe, to detect the presence of a DNA or RNA sequence in target cells such as cloned bacterial cells, cultured eukaryotic cells, or tissue samples. *In situ* hybridization can also be used for locating genes on chromosomes. The process can be performed by preparing a microscope slide with cells in metaphase of mitosis, then treating slide with a weak base to denature the DNA. Next, pour radioactively labeled probe onto the slide under hybridizing conditions, expose the slide to a photographic emulsion for a suitable period such as a few days or weeks, then develop the emulsion.

[91] "Isoform" refers to different forms of a protein that may be produced from different genes or from the same gene by alternative RNA splicing.

[92] "Isolated" generally means that the material is removed from its original environment (*e.g.*, the natural environment if it is naturally occurring).

[93] "Library" refers physically to a pool of nucleic acid fragments that has been propagated in a cloning vector. Library can also refer to an electronic collection of genomic

or proteomic sequence data, including raw sequences, contigs, ORFs and loci from a specific organism.

- [94] "Ligand" refers to an ion or molecule that binds with another molecule, such as a GPCR, to form a macromolecule such as a receptor-ligand complex. An "endogenous
5 ligand" refers to a native ligand that binds to the receptor of the GPCR and modulates biological activity or functionality of the GPCR in its native environment. A "specific ligand" is a ligand able to bind to a particular GPCR and modulate the biological activity or functionality of the particular GPCR; an endogenous ligand is one example of a specific ligand.
- 10 [95] "Microarray" refers to an array of distinct nucleic acid or amino acid molecules arrayed on a substrate, such as paper, nylon or any other type of membrane, filter, chip, glass slide, or any other suitable solid support. Microarrays can also refer to tissue microarrays, composed of small tissue pieces arranged on a slide. U.S. Pat. No. 5,143,854 and PCT Patent Publication Nos. WO 90/15070 and 92/10092.
- 15 [96] "Mimetic" refers to a molecule, *e.g.*, a peptide or non-peptide agent, such as a small molecule, that is able to perform the same biological activity as a certain biologically active agent. For example, some mimetics are molecules comprising the same biological function or activity as the particular GPCR. The structure of the mimetic can be developed from knowledge of the structure of the particular GPCR or portions thereof. For appropriate
20 mimetics, the mimetic is able to effect some or all of the actions of a given antigenic peptide or antibodies against the antigenic peptide. Such mimetics can be made, in view of the present application, using techniques well known in the art, *see, e.g.*, U.S. Patent Nos. 6,197,752; 6,093,697; 6,207,643; 5,849,323, and can be included in the various processes, methods, and systems, etc., described herein, such as databases, binding partner assays,
25 probes, medicaments, and therapeutics.
- [97] "Modulate" refers to controllably changing the activity of a substance or other item, such as the biological activity of a GPCR, antigenic peptide or corresponding antibody. For example, modulation may cause an increase or a decrease in protein activity, binding characteristics, or other biological, functional, or immunological properties of the GPCR.
- 30 [98] "Monoclonal antibody" refers to an antibody obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present

in minor amounts. Monoclonal antibodies include "chimeric" antibodies (immunoglobulins) in which a portion of the heavy or light chain is identical with or homologous to corresponding sequences in antibodies derived from a particular species or belonging to a particular antibody class or subclass, while the remainder of the chain(s) is identical with or homologous to corresponding sequences in antibodies derived from another species or belonging to another antibody class or subclass, as well as fragments of such antibodies, so long as they exhibit the desired biological activity. U.S. Pat. No. 4,816,567; Morrison et al., P.N.A.S. USA, 81:6851-6855 (1984). Monoclonal antibodies are highly specific, being directed against a single antigenic site. As a matter of distinction, polyclonal antibody preparations typically include different antibodies directed against different determinants (epitopes) of a target antigen whereas each monoclonal antibody is directed against a single determinant on the antigen. Monoclonal antibodies can be synthesized by hybridoma culture, uncontaminated by other immunoglobulins. For example, the monoclonal antibodies to be used in accordance with the present invention may be made by the hybridoma method first described by Kohler and Milstein, Nature, 256:495 (1975), or may be made by recombinant DNA methods. See, e.g., U.S. Pat. No. 4,816,567. Monoclonal antibodies may also be isolated from phage antibody libraries using the techniques described in Clackson et al., Nature, 352:624-628 (1991), and Marks et al., J. Mol. Biol., 222:581-597 (1991), for example. The modifier "monoclonal" indicates the character of the antibody as being obtained from a substantially homogeneous population of antibodies, and is not to be construed as requiring production of the antibody by any particular method.

[99] "Nonconservative" changes to an amino acid sequence, see Analog.

[100] "Northern blotting" or "Northern analysis" refers to a method used to detect specific RNA sequences. For example, the process can be performed by electrophoresing RNA in a denaturing agarose gel, transferring the gel onto a membrane, and hybridizing with a labeled RNA or DNA probe.

[101] "Nucleic acid sequence" refers to a polymer comprising a string of "nucleic acids" such as an oligonucleotide, or a polynucleotide or fragment thereof. The nucleic acid sequence can be from DNA or RNA of genomic or synthetic origin, may be single-stranded or double-stranded, and may represent the sense or the antisense strand. A nucleic acid sequence can also be a PNA or a DNA-like or RNA-like material. Unless stated otherwise,

the term encompasses nucleic acids containing known analogues or mimetics of natural nucleotides that have similar binding properties as the reference nucleic acid.

[102] **"Oligonucleotide"** refers to a nucleic acid sequence, generally between 6 nucleotides to 60 nucleotides, preferably about 15 to 30 nucleotides, and most preferably
5 about 20 to 25 nucleotides, that can, for example, be used in PCR or other nucleic acid amplification or in a hybridization assay or microarray. "Oligonucleotide" includes "amplimers," "primers," "oligomers," and "probes," as these terms are commonly defined in the art. Oligonucleotides can be chemically synthesized. Such synthetic oligonucleotides may have no 5' phosphate and if so will not ligate to another oligonucleotide without adding a
10 phosphate, typically by using an ATP in the presence of a kinase. A synthetic oligonucleotide will ligate to a fragment that has not been dephosphorylated.

[103] **"Operably linked"** or **"operably connected"** indicates that one element of an apparatus, system, or method, etc., is connected to another element of the apparatus, system, or method, etc., such that the two elements are able to perform their intended purposes. For
15 example, when a promoter is linked to a polynucleotide to allow transcription of the polynucleotide, it is "operably linked" to the polynucleotide.

[104] **"Orphan receptor"** refers to a receptor for which the endogenous ligand or other ligands inducing biological activity are not known.

[105] **"PCR"** or **"polymerase chain reaction"** refers to an *in vitro* method that uses
20 oligonucleotide primers, enzymes, and a series of repetitive temperature cycles to generate millions of copies of a nucleic acid, typically DNA, from an original specimen of a specific DNA sequence, which specimen may be present only in a trace amount.

[106] **"Plasmids"** refers to extrachromosomal genetic elements composed of DNA or RNA found in both eukaryotic and prokaryotic cells that can propagate themselves
25 autonomously in cells. Plasmids can be used as carriers or vectors to clone DNA molecules. They are designated by a lower case p preceded or followed by capital letters or numbers. The starting plasmids herein are either commercially available, publicly available on an unrestricted basis, or can be constructed from available plasmids in accord with published procedures. In addition, equivalent plasmids to those described are known in the art and will
30 be apparent to the ordinarily skilled artisan in view of the present application.

[107] **"Polynucleotide encoding a polypeptide"** indicates a polynucleotide that includes only the coding sequence for the polypeptide as well as polynucleotides that include additional coding or non-coding sequence.

[108] **"Portion"** or **"fragment"** with regard to a protein (as in "a portion of a given protein") refers to parts of that protein, a subsequence of the complete amino acid sequence of the receptor containing at least about 8, usually at least about 12, more typically at least about 20, and commonly at least about 30 or more contiguous amino acid residues, up to the entire amino acid sequence minus one amino acid. Thus, a protein "comprising at least a portion of the amino acid sequence of SEQ ID NO:XX" or a protein "comprising at least a portion of the amino acid sequence of a particular GPCR" encompasses the full-length protein and fragments thereof. A portion or fragment of a nucleic acid refers to nucleic acid sequences that are greater than about 12 nucleotides in length, and typically at least about 60 or 100 nucleotides, generally at least about 1000 nucleotides, or at least about 10,000 nucleotides in length, up to the entire nucleic acid sequence minus one nucleic acid.

[109] **"P-value"** is a statistical term used to indicate the probability that an event is due to random chance. When used in reference to a result of BLAST searches, the number indicates the probability that a match between two sequences is due to random chance.

[110] **"Receptor"** refers to a molecular structure, typically within a cell or on a cell surface, that selectively binds a specific substance (a ligand) and a specific physiologic effect that accompanies the binding. GPCRs are a type of cell-surface receptor, which means a protein in, on, or traversing the cell membrane (in the case of GPCRs, traversing the cell membrane) that recognizes and binds to specific molecules in the surrounding fluid. The binding to a receptor may serve to transport molecules into the cell's interior or to signal the cell to respond in some way.

[111] **"Recombinant"** refers to both a method of production and a structure. Some recombinant nucleic acids and proteins are made by the use of recombinant DNA techniques that involve human intervention, either in manipulation or selection. Others are made by fusing two fragments that are not naturally contiguous to each other. Engineered vectors are encompassed, as well as nucleic acids comprising sequences derived using any synthetic oligonucleotide process.

[112] **"Sample"** is used in its usual broad sense. For example, a biological sample suspected of containing nucleic acids encoding the GPCR, or fragments thereof, or the GPCR

itself, may comprise a bodily fluid; an extract from a cell, chromosome, organelle, or membrane from a cell; a cell; genomic DNA, RNA, or cDNA (in solution or bound to a solid support); a tissue; a tissue print, and the like. Biological sample refers to samples from a healthy individual as well as to samples from a subject suspected of having or susceptible to having, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[113] "Second messengers" refer to intracellular signaling molecules such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . Second messengers, in turn, alter the

activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal.

[114] "Southern blotting" refers to a method for detecting specific DNA sequences via hybridization. For example, a DNA sample can be electrophoresed in a denaturing agarose gel, transferred onto a membrane, and hybridized with a complementary nucleic acid probe. "Southern" when used in reference to a database indicates an electronic analog of the laboratory technique, which analysis can be used to identify libraries in which a given DNA sequence, such as a gene, EST, or ORF is present. The terms "Northern" and "Western" likewise can be used for electronic analogs to the respective laboratory techniques described above.

[115] "Specific binding" or "specifically binding" refers to an interaction between protein or peptide and a certain substance, such as its specific ligand or antibody, and in some cases its agonists or antagonists. The interaction is dependent upon the presence of a particular structure of the protein recognized by the binding molecule (*e.g.*, the antigenic determinant or epitope). For example, if an antibody specifically binds epitope "A," the presence of a polypeptide containing epitope A or the presence of free unlabeled epitope A will reduce the amount of labeled epitope A that binds to the antibody in a reaction containing free labeled epitope A and the antibody. Conversely, the presence of a polypeptide that does not contain epitope A will not reduce the amount of labeled epitope A that binds to the antibody. Highly specific binding indicates that the protein or peptide binds to its particular ligand, antibody, etc., and does not bind in a significant amount to other proteins present in the sample. Typically, a specific or selective reaction will be at least twice the background signal or noise and more typically more than 10 to 100 times the background signal or noise.

[116] "Stringent conditions" refer to conditions that permit hybridization between complementary polynucleotide sequences. Suitably stringent conditions can be defined by, for example, the concentrations of salt or formamide in the prehybridization and hybridization solutions, or by the hybridization temperature. Stringency can be increased by reducing the concentration of salt, increasing the concentration of formamide, or raising the hybridization temperature. Stringent conditions are dependent upon the type of probe as well as the length of the probe and the GC content of the probe. "Stringent conditions" typically

occur within a range from about $T_m - 5^\circ\text{C}$ (5°C below the melting temperature (T_m) of the probe) to about $T_m - 20 - 25^\circ\text{C}$ for a cRNA probe and to about $T_m - 15^\circ\text{C}$ for an oligonucleotide probe. **"Highly stringent conditions"** refers to conditions under which a probe will hybridize to its target sequence, typically in a complex mixture of nucleic acid sequences, but will not substantially hybridize to other sequences. One example of high stringency conditions for a cRNA probe that is 1,000 nucleotides in length and has a GC content of about 60% is about $55 - 65^\circ\text{C}$ in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA. One example of low stringency conditions for the same probe in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA would be $30 - 35^\circ\text{C}$. **"Very highly stringent conditions"** indicates that there must be complete identity between the sequences. The temperature range corresponding to a particular level of stringency can be narrowed further by calculating the purine to pyrimidine ratio of the nucleic acid of interest and adjusting the temperature accordingly. Variations on and modifications of the above ranges and conditions will be readily appreciated by those of skill in the art in view of the present application. As will be understood by those of skill in the art in view of the present application, the stringency of hybridization can be altered to identify or detect identical or related polynucleotide sequences. One guide for nucleic acid hybridization is Tijssen, Laboratory Techniques in Biochemistry and Molecular Biology-v.24 Hybridization with Nucleic Acid Probes, Part I "Overview of principles of hybridization and the strategy of nucleic acid assays" (New York: Elsevier 1993).

[117] **"Substantially purified"** refers to nucleic acid or amino acid sequences that are removed from their natural environment and are separated from other components from such natural environment, and are at least about 60% free, preferably about 75% or 85% free, and most preferably about 90%, 95% or 99% free from such other components with which they are naturally associated. Substantially purified preferably indicates a substantially homogeneous state and can be in either a dry or aqueous solution or other composition as desired. Purity and homogeneity can be assayed by standard methods, for example on a mass or molar basis, using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography.

[118] "Substitution" when referring to a change in a nucleotide or amino sequence indicates the replacement of one or more nucleotides or amino acids by different nucleotides or amino acids, respectively.

[119] "Variant," see Analog.

- 5 [120] "Western blotting" or "Western analysis" refers to a method for detecting specific protein sequences. For example, the process can be performed by electrophoresing a protein mixture in a denaturing agarose or acrylamide gel, transferring the mixture onto a membrane, and incubating it with an antibody raised against the protein of interest.

[121] Other terms and phrases are defined in other portions of this application.

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C. SELECTION OF DESIRED ANTIGENIC PEPTIDES FOR GPCRs AND OTHER POLYPEPTIDES

- [122] The present invention provides improved antigenic peptides, for example as set forth in Figure 2, SEQ ID NOS. 692-2292, and improved methods of identifying such
15 antigenic peptides from known or publicly available sequences of polypeptides or proteins, i.e., from a candidate polypeptide sequence. Polypeptide and protein are used in their traditional sense to indicate lengthy amino acid molecules, whereas the antigenic peptide has a length significantly less than the length of the corresponding polypeptide or protein such that the antigenic peptide is capable of providing significantly improved antigenicity relative
20 to the corresponding polypeptide or protein, typically improved specificity, affinity or avidity. The candidate polypeptide can be, for example, a human protein or polypeptide, a naturally occurring protein or polypeptide or a synthetic or recombinant protein or polypeptide.

- [123] The antigenic peptides are typically 5 to about 100 amino acids in length, preferably
25 6 to about 50 amino acids, and further preferably 7 to about 20 amino acids. The antigenic peptides include short antigenic amino acid sequences (i.e., peptides comprising only a portion of an antigenic sequence as set forth in Figure 2 or as identified using the methods described herein, plus an insignificant number of additional amino acids at one or both ends, where insignificant indicates that the extra amino acids do not substantially interfere with the
30 antigenicity of the antigenic peptide). Such short antigenic peptides can be identical to at least 5, 6, 7 or more consecutive amino acids of the sequences herein or identified using the methods described herein, or can have one or two (or more, with increasing length)

conservative amino acid substitution for antigenic peptides comprising more than 6 or 7 consecutive amino acids of the sequences herein or identified using the methods described herein. Antigenic peptides and sequences, and related antibodies and assays and the like, are discussed further elsewhere herein with regard to GPCRs, but such discussions applies to all antigenic peptides produced according to the methods herein, including proteins and polypeptides such as kinases, phosphatases and any other desired protein or polypeptide.

5 [124] The identification or selection methods comprise searching the candidate polypeptide sequence using a comparison window of the desired length, then selecting against or rejecting amino acid sequences of the length and having at least 1 characteristic selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, at least 5, 7, 8, or all of the characteristics are selected.

10 [125] The identification or selection methods can also comprise selecting against amino acid sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide, i.e., some polypeptide other than the candidate polypeptide from which the selected antigen was derived, that is different from the candidate polypeptide, posttranslational modification sites, or highly hydrophobic sequences, which indicates sequences adequately hydrophobic to be located in a lipid membrane such as a cellular membrane. The posttranslational modification sites can be phosphorylation or glycosylation sites.

15 [126] The methods can further comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence. Exemplary BLAST-type and FAST-type analyses are described above, including BLAST, BLASTP, BLASTX, FASTA, and FASTX.

D. GENERAL DISCUSSION OF ANTIGENIC PEPTIDES RELATED TO PARTICULAR GPCRS

[127] ANTIGENIC PEPTIDES GENERALLY:

30 [128] The present invention includes antigenic peptides able to induce specific immunogenic responses, and corresponding binding partners. Such antigenic peptides and

binding partners can be cloned, expressed, isolated, purified, and otherwise obtained or manipulated according to routine methods known in the art in view of the present application.

[129] The present invention further relates to antigenic peptides having an amino acid sequence from a particular GPCR, including analogs, mimetics, fragments, derivatives, and the like of such antigenic peptides. See SEQ ID NOS. 1-2292, Figures 1-3. The antigenic peptides may be recombinant, natural or synthetic. The antigenic peptides include (i) antigenic peptides in which one or more of the amino acid residues are substituted with a conserved or non-conserved amino acid residue (preferably a conserved amino acid residue) and such substituted amino acid residue may or may not be one encoded by the genetic code, (ii) antigenic peptides in which one or more of the amino acid residues includes a substituent group, (iii) antigenic peptides in which the mature polypeptide is complexed (*e.g.*, fused or otherwise bonded) with another compound, such as a compound to increase the half-life of the polypeptide (for example, polyethylene glycol), and (iv) antigenic peptides in which additional amino acids are fused to the antigenic peptide. Preparing and using such analogs, etc., are within the scope of those skilled in the art in view of the present application. The antigenic peptides additionally include antigenic peptides that have at least about 90% identity to the given antigenic peptide, and preferably at least about 95% identity to the antigenic peptide. The antigenic peptides additionally include antigenic peptides that contain at least five, six, seven or more consecutive amino acids that are identical to the given antigenic peptide, as well as antigenic peptides that contain at least six, seven, eight or more consecutive amino acids that are identical to the given antigenic except for one or two conservative changes within this such stretch of amino acids. The antigenic peptides of the present invention can be produced by peptide synthesis.

[130] EXPRESSION PROFILES BASED ON PROTEINS:

[131] An expression profile of a particular GPCR in one or more tissues can be made using antibodies or other binding partners produced using the antigenic peptides herein, then using traditional approaches such as Western blotting, immunohistochemistry analysis, protein array, ligand-binding studies, radioimmunoassay (RIA), and high performance liquid chromatography (HPLC), and immunohistochemistry analysis. H&E staining and other analyses can be used in combination with such immunologically-based analyses.

[132] SCREENING FOR ACTIVITY:

[133] The activity or functionality of an antigenic peptide can be measured using any of a variety of assays known in the art. Similarly, the specificity or affinity of an antibody or other binding partner made using the antigenic peptide can be measured using any of a variety of assays known in the art

- 5 [134] The activity or functionality of a particular GPCR may be measured using any of a variety of functional assays in which activation of the receptor in question results in an observable change in the level of some second messenger system, including but not limited to adenylyl cyclase, calcium mobilization, arachidonic acid release, ion channel activity, inositol phospholipid hydrolysis, or guanylyl cyclase. Heterologous expression systems utilizing
10 appropriate host cells to express the nucleic acid of the subject invention are used to obtain the desired second messenger coupling. Receptor activity may also be assayed in an oocyte expression system.

[135] **PROTEIN PURIFICATION:**

- [136] The antigenic peptides and proteins or polypeptides containing them can be purified
15 by standard methods, including but not limited to salt or alcohol precipitation, preparative disc-gel electrophoresis, isoelectric focusing, high pressure liquid chromatography (HPLC), reversed-phase HPLC, gel filtration, cation and anion exchange, partition chromatography, and countercurrent distribution. Suitable purification methods will be readily apparent to those skilled in the art in view of the present application and are disclosed, *e.g.*, in Guide to
20 Protein Purification, Methods in Enzymology, Vol. 182, M. Deutscher, Ed., Academic Press, New York, NY (1990). Purification steps can be followed as part of carrying out assays for ligand binding activity. Particularly where a particular GPCR is being isolated from a cellular or tissue source, it is preferable to include one or more inhibitors of proteolytic enzymes in the assay system, such as phenylmethylsulfonyl fluoride (PMSF).

25

E. CERTAIN ASSAYS, ANTIBODIES, PROBES, THERAPEUTICS, AND
OTHER SYSTEMS AND ASPECTS, OF THE INVENTION

1. SYSTEMS AND METHODS FOR SCREENING FOR A
PARTICULAR GPCR OR ANTIGENIC PEPTIDE

- 30 [137] **SCREENING FOR ANTIGENIC PEPTIDES:**

[138] As noted elsewhere herein, the present invention provides antigenic peptides and antibodies that are specific for a particular GPCR. The invention also provides systems and

methods for using or detecting such peptides, and antibodies against such peptides or corresponding GPCRs in a sample. The assays are based on the detection of the antigenic peptides, typically as they are displayed by the particular GPCR, or the detection of antibodies produced against the particular antigenic peptides and corresponding GPCRs.

5 **[139] SCREENING FOR/WITH ANTIGENIC PEPTIDES:**

[140] Many assays are characterized by the ability of antigenic peptides for a particular GPCR to be bound by antibodies against them, and the ability of antibodies produced against such antigenic peptides to bind to antigens or epitopes of the particular GPCR in a sample. Some exemplary assays are described below and elsewhere herein.

10 **[141] LIST OF ASSAYS:**

[142] A variety of assays can detect antibodies that bind specifically to the desired protein in or from a sample, or detect a desired protein bound to one or more antibodies in or from the sample. Exemplary assays are described in detail in *Antibodies: A Laboratory Manual*, Harlow and Lane (eds.), Cold Spring Harbor Laboratory Press (1988). Representative
15 examples of such assays include: countercurrent immuno-electrophoresis (CIEP), radioimmunoassays, radioimmunoprecipitations, enzyme-linked immunosorbent assays (ELISA), dot blot assays, inhibition or competition assays, sandwich assays, immunostick (dip-stick) assays, simultaneous assays, immunochromatographic assays, immunofiltration assays, latex bead agglutination assays, immunofluorescent assays, biosensor assays, and
20 low-light detection assays. See U.S. Pat. Nos. 4,376,110 and 4,486,530; WO 94/25597; WO/25598.

[143] ENZYME-LINKED IMMUNOSORBENT ASSAYS (ELISA):

[144] One assay for the detection of a particular GPCR is a sandwich assay such as an enzyme-linked immunosorbent assay (ELISA). In one preferred embodiment, the ELISA
25 comprises the following steps: (1) coating the particular GPCR antigenic peptide onto a solid phase, (2) incubating a sample suspected of containing anti-particular GPCR antibodies with the antigenic peptide coated onto the solid phase under conditions that allow the formation of an antigen-antibody complex, (3) adding an anti-antibody (such as anti-IgG) conjugated with a label to be captured by the resulting antigen-antibody complex bound to the solid phase,
30 and (4) measuring the captured label and determining therefrom whether the sample contains anti-particular GPCR antibodies.

[145] IMMUNOFLUORESCENCE ASSAY:

[146] A fluorescent antibody test (FA-test) uses a fluorescently labeled antibody able to bind to one of the proteins of the invention. For detection, visual determinations are made by a technician using fluorescence microscopy, yielding a qualitative result. In one embodiment, this assay is used for the examination of tissue samples or histological sections.

5 [147] **BEAD AGGLUTINATION ASSAYS:**

[148] In latex bead agglutination assays, antibodies to one or more of the antigenic peptides of the present invention are conjugated to latex beads. The antibodies conjugated to the latex beads are then contacted with a sample under conditions permitting the antibodies to bind to desired proteins in the sample, if any. The results are then read visually, yielding a
10 qualitative result. In some embodiments, as with certain other assays, this format can be used in the field for on-site testing.

[149] **ENZYME IMMUNOASSAYS:**

[150] Enzyme immunoassays (EIA) include a number of different assays that can use the antibodies described in the present application. For example, a heterogeneous indirect EIA
15 uses a solid phase coupled with an antibody of the invention and an affinity purified, anti-IgG immunoglobulin preparation. The solid phase can be a polystyrene microtiter plate. The antibodies and immunoglobulin preparation are then contacted with the sample under conditions permitting antibody binding, which conditions are well known in the art. The results of such an assay can be read visually or using a device such as a spectrophotometer,
20 such as an ELISA plate reader, to yield a quantitative result. An alternative solid phase EIA format includes plastic-coated ferrous metal beads able to be moved during the procedures of the assay by means of a magnet. Yet another alternative is a low-light detection immunoassay format. In this highly sensitive format, the light emission produced by appropriately labeled bound antibodies are quantified automatically. Preferably, the reaction
25 is performed using microtiter plates.

[151] In an alternative embodiment, a radioactive tracer is substituted for the enzyme-mediated detection in an EIA to produce a radioimmunoassay (RIA).

[152] **SANDWICH ASSAY:**

[153] In a capture-antibody sandwich enzyme assay, the desired protein is bound between
30 an antibody attached to a solid phase, preferably a polystyrene microtiter plate, and a labeled antibody. The results can be measured, for example, using a spectrophotometer, such as an ELISA plate reader.

[154] SEQUENTIAL AND SIMULTANEOUS ASSAYS:

[155] In a sequential assay format, reagents are allowed to incubate with the capture antibody in a stepwise fashion. The test sample is first incubated with the capture antibody. Following a wash step, incubation with the labeled antibody occurs. In a simultaneous assay, 5 the two incubation periods described in the sequential assay are combined. This eliminates one incubation period plus a wash step.

[156] IMMUNOSTICK (DIP-STICK) ASSAYS:

[157] A dipstick/immunostick format is essentially an immunoassay using a polystyrene paddle or dipstick instead of a polystyrene microtiter plate as the solid phase. Reagents are 10 the same and the format can either be simultaneous or sequential.

[158] IMMUNOCHROMATOGRAPHIC ASSAYS:

[159] In a chromatographic strip test format, a capture antibody and a labeled antibody are dried onto a chromatographic strip, which typically comprises nitrocellulose or high porosity nylon bonded to cellulose acetate. The capture antibody is usually spray dried as a line at one 15 end of the strip. At this end, there is an absorbent material that is in contact with the strip. At the other end of the strip, the labeled antibody is deposited in a manner that prevents it from being absorbed onto the membrane. Usually, the label attached to the antibody is a latex bead or colloidal gold. The assay may be initiated by applying the sample immediately in front of the labeled antibody.

20 [160] IMMUNOFILTRATION ASSAYS:

[161] Immunofiltration/immunoconcentration formats combine a large solid-phase surface with directional flow of sample/reagents, which concentrates and accelerates the binding of antigen to antibody. In an exemplary format, the test sample is preincubated with a labeled antibody, and then applied to a solid phase such as fiber filters, nitrocellulose membranes, or 25 the like. The solid phase can also be precoated with latex or glass beads coated with capture antibody. Detection of analyte is the same as that in a standard immunoassay. The flow of sample/reagents can be modulated by either vacuum or the wicking action of an underlying absorbent material.

[162] BIOSENSOR ASSAYS:

[163] A threshold biosensor assay is a sensitive, instrumented assay amenable to 30 screening large numbers of samples at low cost. In one embodiment, such an assay comprises the use of light-addressable potentiometric sensors wherein the reaction involves

the detection of a pH change due to binding of the desired protein by capture antibodies, bridging antibodies, and urease-conjugated antibodies. Upon binding, a pH change is effected that is measurable by translation into electrical potential (μ volts). The assay typically occurs in a very small reaction volume, and is very sensitive; the reported detection
5 limit of the assay is 1,000 molecules of urease per minute.

2. ANTIBODIES

[164] ANTIBODIES GENERATED AGAINST A PARTICULAR ANTIGENIC PEPTIDE AND ITS CORRESPONDING GPCR:

10 **[165]** Highly specific, high affinity or antibodies against a particular GPCR or other polypeptide can be generated using the antigenic peptides herein and using antibody generation techniques as described herein or elsewhere. The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can selectively detect the corresponding GPCR
15 in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected. The antibodies produced using the antigenic peptides of the present invention,
20 for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[166] The antibodies can be used to conduct immunohistochemistry and other analyses of a variety of tissue samples to determine expression of a particular GPCR in such tissues, for
25 diagnostic assays, and for other desired purposes. The specification will now discuss a variety of antibody types, methods, uses, etc.

[167] ANTIBODIES GENERALLY:

[168] In some embodiments, the present invention provides antibodies and other binding partners created using the antigenic peptides herein and directed to a particular GPCR from
30 which the antigenic peptides were derived. Compositions and uses for such antibodies are contemplated, including diagnostic, medicament, and therapeutic uses. Various diagnostic, medicament, and therapeutic uses for antibodies have been reviewed above and, for example,

in Goldenberg et al., Semin. Cancer Biol., 1(3):217-225 (1990); Beck et al., Semin. Cancer Biol., 1(3):181-188 (1990); Niman, Immunol. Ser., 53:189-204 (1990); Endo, Nippon Igaku Hoshasen Gakkai Zasshi (Japan), 50(8):901-909 (1990); and, U.S. Pat. No. 6,214,984.

[169] Recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, epsilon, and mu constant region genes, as well as myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD, and IgE, respectively. An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of antigenic peptide chains, each pair having one "light" chain (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100 to 110 or more amino acids primarily responsible for antigen recognition. The terms variable light chain (V_L) and variable heavy chain (V_H) refer to these light and heavy chains respectively.

15 [170] **ANTI-IDIOTYPIC ANTIBODIES:**

[171] The present invention encompasses anti-idiotypic antibodies, including polyclonal and monoclonal anti-idiotypic antibodies, that are produced using the antibodies described herein as antigens. These anti-idiotypic antibodies are useful because they may mimic the structures of the antigenic peptides set forth herein.

20 [172] Techniques for producing antibodies, including antibody fragments, include the following.

a. Antibody Preparation

(i) Polyclonal Antibodies

25 [173] **ANTIBODY PREP - POLYCLONAL:**

[174] Polyclonal antibodies are generally raised in animals by multiple subcutaneous (sc) or intraperitoneal (ip) injections of the relevant antigen and an adjuvant. It may be useful to conjugate the relevant antigen to a protein that is immunogenic in the species to be immunized, e.g., keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, or soybean trypsin inhibitor, using a bifunctional or derivatizing agent, for example, maleimidobenzoyl sulfosuccinimide ester (conjugation through cysteine residues), N-

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hydroxysuccinimide (through lysine residues), glutaraldehyde, succinic anhydride, SOCl_2 , or $\text{R}^1\text{N}=\text{C}=\text{NR}$, where R and R^1 are different alkyl groups.

[175] ANTIBODY PREP – ADJUVANTS (ALL ABS):

[176] Suitable adjuvants for the vaccination of animals for the production of polyclonal, monoclonal, and other antibodies include but are not limited to Adjuvant 65 (containing peanut oil, mannide monooleate, and aluminum monostearate); Freund's complete or incomplete adjuvant; mineral gels such as aluminum hydroxide, aluminum phosphate, and alum; surfactants such as hexadecylamine, octadecylamine, lysolecithin, dimethyldioctadecylammonium bromide, N,N-dioctadecyl-N',N'-bis(2-hydroxymethyl)propanediamine, methoxyhexadecylglycerol, and pluronic polyols; polyanions such as pyran, dextran sulfate, poly IC, polyacrylic acid, and carbopol; peptides such as muramyl dipeptide, dimethylglycine, tuftsin, stress proteins, core-containing proteins from a positive stranded RNA virus, *see* US Pat. No. 6,153,378; and, oil emulsions. The antigenic peptides could also be administered following incorporation into liposomes or other microcarriers.

[177] Information concerning adjuvants and various aspects of immunoassays are disclosed, *e.g.*, in the series by P. Tijssen, Practice and Theory of Enzyme Immunoassays, 3rd Edition (1987), Elsevier, New York. Other useful references covering methods for preparing polyclonal antisera include Microbiology, Hoeber Medical Division, Harper and Row (1969); Landsteiner, Specificity of Serological Reactions, Dover Publications, New York (1962); and, Williams, et al., Methods in Immunology and Immunochemistry, Vol. 1, Academic Press, New York (1967).

[178] Animals can be immunized against the antigen, immunogenic conjugates, or derivatives by combining 1 mg or 1 μg of the peptide or conjugate (for rabbits or mice, respectively) with 3 volumes of Freund's complete adjuvant and injecting the solution intradermally at multiple sites. One month later the animals are boosted with 1/5 to 1/10 the original amount of peptide or conjugate in Freund's complete adjuvant by subcutaneous injection at multiple sites. Seven to 14 days later the animals are bled and the serum is assayed for antibody titer. Animals are boosted until the titer plateaus. Preferably, the animal is boosted with the conjugate of the same antigen, but conjugated to a different protein or through a different cross-linking reagent. Conjugates also can be made in recombinant cell culture as protein fusions. In addition, aggregating agents such as alum can be suitably used to enhance the immune response.

(ii) Monoclonal Antibodies

[179] ANTIBODY PREP - MONOCLONAL:

5 **[180]** Monoclonal antibodies are obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present in minor amounts. For example, monoclonal antibodies can be made using the hybridoma method first described by Kohler and Milstein, *Nature*, 256:495 (1975), or can be made by recombinant DNA methods, or otherwise as desired.

10 **[181]** In the hybridoma method, a mouse, or other appropriate host animal, such as a hamster, is immunized as described herein to elicit lymphocytes that produce or are capable of producing antibodies that will bind specifically to the antigenic peptide used for immunization. Alternatively, lymphocytes may be immunized *in vitro*. Lymphocytes then are fused with myeloma cells using a suitable fusing agent, such as polyethylene glycol, to
15 form a hybridoma cell, Goding, *Monoclonal Antibodies: Principles and Practice*, pp. 59-103, Academic Press (1986).

[182] The hybridoma cells thus prepared are seeded and grown in a suitable culture medium that preferably contains one or more substances that inhibit the growth or survival of the unfused, parental myeloma cells. For example, if the parental myeloma cells lack the
20 enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine (HAT medium), which substances prevent the growth of HGPRT-deficient cells.

[183] Preferred myeloma cells are those that fuse efficiently, support stable high-level production of antibody by the selected antibody-producing cells, and are sensitive to a
25 medium such as HAT medium, for example murine myeloma lines, such as those derived from MOPC-21 and MPC-11 mouse tumors available from the Salk Institute Cell Distribution Center, San Diego, CA USA, and SP-2 cells available from the American Type Culture Collection, Rockville, MD USA. Human myeloma and mouse-human heteromyeloma cell lines have also been described for the production of human monoclonal
30 antibodies, Kozbor, *J. Immunol.*, 133:3001 (1984); Brodeur et al., *Monoclonal Antibody Production Techniques and Applications*, pp. 51-63, Marcel Dekker, Inc., New York (1987).

[184] Culture medium in which hybridoma cells are growing is assayed for production of monoclonal antibodies directed against the antigenic peptide. The binding specificity of monoclonal antibodies produced by hybridoma cells can be determined by immunoprecipitation or by an *in vitro* binding assay, such as radioimmunoassay (RIA) or enzyme-linked immunosorbent assay (ELISA). The binding affinity of the monoclonal antibody can, for example, be determined by the Scatchard analysis of Munson and Pollard, Anal. Biochem., 107:220 (1980). The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[185] After hybridoma cells are identified that produce antibodies of the desired specificity, affinity, or activity, the clones may be subcloned by limiting dilution procedures and grown by standard methods (Goding, *supra*). Suitable culture media for this purpose include, for example, D-MEM or RPMI-1640 medium. In addition, the hybridoma cells may be grown *in vivo* as ascites tumors in an animal.

[186] The monoclonal antibodies secreted by the subclones are suitably separated from the culture medium, ascites fluid, or serum by conventional immunoglobulin purification procedures such as, for example, protein A-SEPHAROSETM, hydroxyapatite chromatography, gel electrophoresis, dialysis, or affinity chromatography.

[187] DNA encoding the monoclonal antibodies can be readily isolated and sequenced using conventional procedures (*e.g.*, by using oligonucleotide probes that are capable of binding specifically to genes encoding the heavy and light chains of murine antibodies). The hybridoma cells serve as a preferred source of such DNA. Once isolated, the DNA may be placed into expression vectors, which can then be transfected into host cells such as *E. coli* cells, simian COS cells, Chinese hamster ovary (CHO) cells, or myeloma cells that do not otherwise produce immunoglobulin protein, to obtain the synthesis of monoclonal antibodies in the recombinant host cells. Review articles on recombinant expression in bacteria of DNA encoding antibody include Skerra et al., Curr. Opinion in Immunol., 5:256-262 (1993), and Pluckthun, Immunol. Revs., 130:151-188 (1992).

[188] **MOABS - COMBINATORIAL:**

[189] In a further embodiment, antibodies or antibody fragments can be isolated from antibody phage libraries generated using the techniques described in McCafferty et al.,

Nature, 348:552-554 (1990), using the proper antigen such as CD11a, CD18, IgE, or HER-2 to select for a suitable antibody or antibody fragment. Clackson et al., Nature, 352:624-628 (1991) and Marks et al., J. Mol. Biol., 222:581-597 (1991) describe the isolation of murine and human antibodies, respectively, using phage libraries. Subsequent publications describe the production of high affinity (nM range) human antibodies by chain shuffling, Marks et al., Biotechnology, 10:779-783 (1992), as well as combinatorial infection and *in vivo* recombination as strategies for constructing very large phage libraries, Waterhouse et al., Nuc. Acids. Res., 21:2265-2266 (1993). Combinatorial antibodies are also discussed in Huse et al., Science 246:1275-1281 (1989), and Sastry et al., Proc. Natl. Acad. Sci. USA, 86:5728-5732 (1989), and Alting-Mees et al., Strategies in Molecular Biology 3:1-9 (1990). These references describe a system commercially available from Stratacyte, La Jolla, CA USA. Briefly, mRNA is isolated from a B cell population and utilized to create heavy and light chain immunoglobulin cDNA expression libraries in the λ IMMUNOZAP(H) and λ IMMUNOZAP(L) vectors. These vectors may be screened individually or co-expressed to form Fab fragments or antibodies, *see* Huse et al., *supra*; *see also* Sastry et al., *supra*. Positive plaques can subsequently be converted to a non-lytic plasmid, which allows for high-level expression of monoclonal antibody fragments from *E. coli*.

[190] HUMANIZED MOAB:

[191] Binding partners can also be constructed utilizing recombinant DNA techniques to incorporate the variable regions of a gene that encode a specifically binding antibody. The construction of these binding partners can be readily accomplished by one of ordinary skill in the art in view of the present application. *See* Larrick et al., Biotechnology, 7:934-938 (1989); Riechmann et al., Nature, 332:323-327 (1988); Roberts et al., Nature, 328:731-734 (1987); Verhoeyen et al., Science 239:1534-1536 (1988); Chaudhary et al., Nature, 339:394-397 (1989); *see also* U.S. Pat. No. 5,132,405 entitled "Biosynthetic Antibody Binding Sites".) For example, the DNA can be modified by substituting the coding sequence for human heavy- and light-chain constant domains in place of homologous murine sequences, U.S. Pat. No. 4,816,567; Morrison, et al., Proc. Nat. Acad. Sci., 81:6851 (1984), or by covalently joining to the immunoglobulin coding sequence all or part of the coding sequence for a non-immunoglobulin polypeptide. In another example, DNA segments encoding the desired antigen-binding domains specific for the protein or peptide of interest are amplified from appropriate hybridomas and inserted directly into the genome of a cell that produces human

antibodies. See Verhoeyen et al., *supra*; see also Reichmann et al., *supra*. Some of these techniques transfer the antigen-binding site of a specifically binding mouse or rat monoclonal antibody or the like to a human antibody. Such antibodies can be preferable for therapeutic use in humans because they are typically not as antigenic as rat or mouse antibodies.

- 5 [192] In an alternative embodiment, genes that encode the variable region from a hybridoma producing a monoclonal antibody of interest can be amplified using oligonucleotide primers for the variable region. These primers may be synthesized by one of ordinary skill in the art, or may be purchased from commercially available sources. For instance, primers for mouse and human variable regions including, among others, primers for
- 10 V_{Ha}, V_{Hb}, V_{Hc}, V_{Hd}, C_{H1}, V_L, and C_L regions are available from Stratacyte (La Jolla, CA). These primers may be utilized to amplify heavy- or light-chain variable regions, which may then be inserted into vectors such as IMMUNOZAPTM(H) or IMMUNOZAPTM(L) (Stratacyte), respectively. These vectors may then be introduced into *E. coli* for expression. Utilizing these techniques, large amounts of a single-chain protein containing a fusion of the
- 15 V_H and V_L domains may be produced, see Bird et al., Science 242:423-426 (1988).

[193] ANTIBODY SUBSTITUTIONS - NON-IMMUNOGLOBULIN POLYPEPTIDES (ALL ABS):

- [194] Non-immunoglobulin polypeptides can be substituted in monoclonal and other antibodies described herein for the constant domains of an antibody, or they can be
- 20 substituted for the variable domains of one antigen-combining site of an antibody to create a chimeric bivalent antibody comprising one antigen-combining site having specificity for an antigen and another antigen-combining site having specificity for a different antigen.

[195] CHIMERICS:

- [196] Chimeric or hybrid antibodies can also be prepared *in vitro* using known methods in
- 25 synthetic protein chemistry, including those involving crosslinking agents, in view of the present application. For example, immunotoxins may be constructed using a disulfide-exchange reaction or by forming a thioether bond. Examples of suitable reagents for this purpose include iminothiolate and methyl-4-mercaptobutyrimidate.

[197] ANTIBODY LABELING (ALL ABS):

- 30 [198] For diagnostic applications or otherwise as desired, and for monoclonal and other antibodies described herein, the antibodies and other binding partners typically will be labeled with a detectable moiety. The detectable moiety can be any moiety that is capable of

producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ^3H , ^{14}C , ^{32}P , ^{35}S , or ^{125}I ; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or horseradish peroxidase. Any method known in the art for conjugating the antibody or binding partner to the detectable moiety may be employed, including those methods described by Hunter et al., *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.*, 40:219 (1981); and Nygren, *J. Histochem. Cytochem.*, 30:407 (1982).

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(iii) Humanized And Human Antibodies

[199] HUMANIZED AB GENERALLY:

[200] Methods for humanizing non-human antibodies are well known in the art and have been discussed in part above. Generally, a humanized antibody has one or more amino acid residues introduced into it from a source which is non-human. These non-human amino acid residues are often referred to as "import" residues, which are typically taken from an "import" variable domain. Humanization can be performed essentially following the method of Winter and co-workers, Jones et al., *Nature*, 321:522-525 (1986); Riechmann et al., *Nature*, 332:323-327 (1988); Verhoeyen et al., *Science*, 239:1534-1536 (1988), by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies, U.S. Pat. No. 4,816,567, wherein substantially less than an intact human variable domain has been substituted by the corresponding sequence from a non-human species. In practice, humanized antibodies are typically human antibodies in which some CDR residues and possibly some FR residues are substituted by residues from analogous sites in rodent antibodies.

[201] The choice of human variable domains, both light and heavy, to be used in making humanized antibodies is very important to reduce antigenicity. According to the so-called "best-fit" method, the sequence of the variable domain of a rodent antibody is screened against the entire library of known human variable-domain sequences. The human sequence that is closest to that of the rodent is then accepted as the human framework (FR) for the humanized antibody. Sims et al., *J. Immunol.*, 151:2296 (1993); Chothia and Lesk, *J. Mol. Biol.*, 196:901 (1987). Another method uses a particular framework derived from the consensus sequence of all human antibodies of a particular subgroup of light or heavy chains.

The same framework may be used for several different humanized antibodies. Carter et al., Proc. Natl. Acad. Sci. USA, 89:4285 (1992); Presta et al., J. Immunol., 151:2623 (1993).

[202] It is typically desirable that antibodies be humanized with retention of high affinity for the antigen and other favorable biological properties. To achieve this goal, according to one method, humanized antibodies are prepared by a process of analysis of the parental sequences and various conceptual humanized products using three-dimensional models of the parental and humanized sequences. Three-dimensional immunoglobulin models are commonly available and are familiar to those skilled in the art. Computer programs are available that illustrate and display probable three-dimensional conformational structures of selected candidate immunoglobulin sequences. Inspection of these displays permits analysis of the likely role of the residues in the functioning of the candidate immunoglobulin sequence, *e.g.*, the analysis of residues that influence the ability of the candidate immunoglobulin to bind antigen. In this way, FR residues can be selected and combined from the consensus and import sequences so that the desired antibody characteristic, such as increased affinity for the target antigen(s), is achieved. In general, CDR residues are directly and most substantially involved in influencing antigen binding.

[203] It is also possible to produce transgenic animals (*e.g.*, mice) that are capable, upon immunization, of producing a full repertoire of human antibodies in the absence of endogenous immunoglobulin production. For example, it has been described that the homozygous deletion of the antibody heavy-chain joining region (J_H) gene in chimeric and germ-line mutant mice results in complete inhibition of endogenous antibody production. Transfer of the human germ-line immunoglobulin gene array in such germ-line mutant mice will result in the production of human antibodies upon antigen challenge. *See, e.g.*, Jakobovits et al., Proc. Natl. Acad. Sci. USA. 90:2551-255 (1993); Jakobovits et al., Nature, 362:255-258 (1993); Bruggemann et al., Year Immuno., 7:33 (1993). Human antibodies can also be produced in phage-display libraries, Hoogenboom and Winter, J. Mol. Biol., 227:381 (1991); Marks et al., J. Mol. Biol., 222:581 (1991).

(iv) Antibody Fragments

[204] **ANTIBODY FRAGMENTS:**

[205] Various techniques have been developed for the production of antibody fragments. Such fragments can be derived via proteolytic digestion of intact antibodies, *see, e.g.*,

Morimoto et al., J. Biochem. Biophys. Meth. 24:107-117 (1992) and Brennan et al., Science, 229:81 (1985). Fragments can also be produced directly by recombinant host cells. For example, antibody fragments can be isolated from antibody phage libraries discussed above. Fab'-SH fragments can be directly recovered from *E. coli* and chemically coupled to form F(ab')₂ fragments, Carter et al., Biotechnology 10:163-167 (1992). F(ab')₂ fragments can be isolated directly from recombinant host cell culture. Other techniques for the production of antibody fragments will be apparent to the skilled practitioner.

(v) Bispecific Antibodies

10 [206] **BISPECIFIC ANTIBODIES GENERALLY:**

[207] Bispecific antibodies (BsAbs) are antibodies that have binding specificities for at least two different antigens. Bispecific antibodies can be derived from full-length antibodies or from antibody fragments, e.g., F(ab')₂ bispecific antibodies.

[208] Methods for making bispecific antibodies are known in the art. Traditional
15 production of full-length bispecific antibodies is based on the coexpression of two immunoglobulin heavy chain-light chain pairs, where the two chains have different specificities, Millstein and Cuello, Nature, 305:537-539 (1983). Because of the random assortment of immunoglobulin heavy and light chains, these hybridomas (quadromas) produce a mixture of potentially 10 different antibody molecules, of which only one has the
20 correct bispecific structure. Purification of the correct molecule, which is usually accomplished by affinity chromatography steps, is rather cumbersome, and the product yields are low. Similar procedures are disclosed in WO 93/08829, and in Traunecker et al., E.M.B.O. J., 10:3655-3659 (1991).

[209] According to another approach, antibody variable domains containing the desired
25 binding specificities (antibody-antigen combining sites) are fused to immunoglobulin constant domain sequences. The fusion is preferably with an immunoglobulin heavy chain constant domain, comprising at least part of the hinge, C_H 2, and C_H 3 regions. It is preferred to have the first heavy-chain constant region (C_H 1) containing the site necessary for light chain binding, present in at least one of the fusions. DNAs encoding the immunoglobulin
30 heavy chain fusions and, if desired, the immunoglobulin light chain, are inserted into separate expression vectors, and are co-transfected into a suitable host organism. This provides for great flexibility in adjusting the mutual proportions of the three polypeptide fragments in

embodiments when unequal ratios of the three polypeptide chains used in the construction provide the improved yields. It is, however, possible to insert the coding sequences for two or all three polypeptide chains in one expression vector when the expression of at least two polypeptide chains in equal ratios results in high yields or when the ratios are of no particular
5 significance.

[210] ANTIBODIES - HYBRID IMMUNOGLOBULIN HEAVY CHAIN:

[211] In one embodiment of this approach, the bispecific antibodies are composed of a hybrid immunoglobulin heavy chain with a first binding specificity in one arm, and a hybrid immunoglobulin heavy chain-light chain pair (providing a second binding specificity) in the
10 other arm. This asymmetric structure may facilitate the separation of the desired bispecific compound from unwanted immunoglobulin chain combinations, as the presence of an immunoglobulin light chain in only one half of the bispecific molecule provides for a facile method of separation. This approach is discussed in WO 94/04690. For further details of generating bispecific antibodies see, for example, Suresh et al., Meth. Enzymol., 121:210
15 (1986).

[212] ANTIBODIES - CROSS-LINKED OR "HETEROCONJUGATE":

[213] Bispecific antibodies include cross-linked or "heteroconjugate" antibodies. For example, one of the antibodies in the heteroconjugate can be coupled to avidin, the other to biotin. Such antibodies have, for example, been proposed to target immune system cells to
20 unwanted cells, U.S. Pat. No. 4,676,980), and for treatment of HIV infection, WO 91/00360, WO 92/200373, and EP 03089). Heteroconjugate antibodies may be made using any convenient cross-linking methods. Suitable cross-linking agents are well known in the art, and are disclosed in U.S. Pat. No. 4,676,980, along with a number of cross-linking techniques.

25 [214] ANTIBODIES - DIABODIES:

[215] The "diabody" technology described by Hollinger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993) has provided an alternative mechanism for making BsAb fragments. The fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) by a linker that is too short to allow pairing between the two domains
30 on the same chain. Accordingly, the V_H and V_L domains of one fragment are forced to pair with the complementary V_L and V_H domains of another fragment, thereby forming two antigen-binding sites.

[216] Another strategy for making BsAb fragments by the use of single-chain Fv (sFv) dimers has also been reported. See Gruber et al., J. Immunol., 152:5368 (1994). These researchers designed an antibody comprising the V_H and V_L domains of a first antibody joined by a 25-amino-acid-residue linker to the V_H and V_L domains of a second antibody.

5 The refolded molecule bound to fluorescein and the T-cell receptor and redirected the lysis of human tumor cells that had fluorescein covalently linked to their surface.

[217] **ANTIBODIES - OTHER:**

[218] Techniques for generating bispecific antibodies from antibody fragments have also been described in the literature. For example, bispecific antibodies can be prepared using
10 chemical linkage. Brennan et al., Science, 229:81 (1985) describe a procedure wherein intact antibodies are proteolytically cleaved to generate F(ab')₂ fragments. These fragments are reduced in the presence of the dithiol complexing agent sodium arsenite to stabilize vicinal dithiols and prevent intermolecular disulfide formation. The Fab' fragments generated are then converted to thionitrobenzoate (TNB) derivatives. One of the Fab'-TNB derivatives is
15 then reconverted to the Fab'-thiol by reduction with mercaptoethylamine and is mixed with an equimolar amount of the other Fab'-TNB derivative to form the BsAb. The BsAbs produced can be used as agents for the selective immobilization of enzymes.

[219] Fab'-SH fragments can be directly recovered from *E. coli*, which can be chemically coupled to form bispecific antibodies. Shalaby et al., J. Exp. Med., 175:217-225 (1992)
20 describe the production of a fully humanized BsAb F(ab')₂ molecule. Each Fab' fragment was separately secreted from *E. coli* and subjected to directed chemical coupling *in vitro* to form the BsAb. The BsAb thus formed was able to bind to cells overexpressing the HER2 receptor and normal human T cells, as well as trigger the lytic activity of human cytotoxic lymphocytes against human breast tumor targets. See also Rodriguez et al., Int. J. Cancers
25 (Suppl.) 7:45-50 (1992).

[220] Various techniques for making and isolating BsAb fragments directly from recombinant cell culture have also been described. For example, bispecific F(ab')₂ heterodimers have been produced using leucine zippers. Kostelny et al., J. Immunol., 148(5):1547-1553 (1992). The leucine zipper peptides from the Fos and Jun proteins are
30 linked to the Fab' portions of two different antibodies by gene fusion. The antibody homodimers are reduced at the hinge region to form monomers and then re-oxidized to form the antibody heterodimers.

b. Antibody Purification

[221] ANTIBODY PURIFICATION GENERALLY:

[222] When using recombinant techniques, the antibody can be produced intracellularly, in the periplasmic space, or directly secreted into the medium. If the antibody is produced intracellularly, as a first step, the particulate debris, either host cells or lysed fragments, is removed, for example, by centrifugation or ultrafiltration. Carter et al., Bio/Technology 10:163-167 (1992), describe a procedure for isolating antibodies which are secreted to the periplasmic space of *E. coli*. Briefly, cell paste is thawed in the presence of sodium acetate (pH 3.5), EDTA, and phenylmethylsulfonylfluoride (PMSF) over about 30 min. Cell debris can be removed by centrifugation. Where the antibody is secreted into the medium, supernatants from such expression systems are generally first concentrated using a commercially available protein concentration filter, for example, an Amicon or Millipore Pellicon ultrafiltration unit. A protease inhibitor such as PMSF may be included in any of the foregoing steps to inhibit proteolysis and antibiotics may be included to prevent the growth of adventitious contaminants.

[223] BEFORE LPHIC:

[224] The antibody composition prepared from the cells is preferably subjected to at least one purification step prior to LPHIC. Examples of suitable purification steps include hydroxyapatite chromatography, gel electrophoresis, dialysis, and affinity chromatography. The suitability of protein A as an affinity ligand depends on the species and isotype of any immunoglobulin Fc domain that is present in the antibody. Protein A can be used to purify antibodies that are based on human $\gamma 1$, $\gamma 2$, or $\gamma 4$ heavy chains, Lindmark et al., J. Immunol. Meth. 62:1-13 (1983). Protein G has been recommended for mouse isotypes and for human $\gamma 3$, Guss et al., E.M.B.O. J., 5:1567-1575 (1986). The matrix to which the affinity ligand is attached is often agarose, but other matrices are available. Mechanically stable matrices such as controlled pore glass or poly(styrenedivinyl)benzene allow for faster flow rates and shorter processing times than can be achieved with agarose. Where the antibody comprises a $C_H 3$ domain, the Bakerbond ABXTM resin (J. T. Baker, Phillipsburg, N.J.) is useful for purification. Other techniques for protein purification such as fractionation on an ion-exchange column, ethanol precipitation, Reverse Phase HPLC, chromatography on silica, chromatography on heparin SEPHAROSETM, chromatography on an anion or cation

exchange resin (such as a polyaspartic acid column), chromatofocusing, SDS-PAGE, and ammonium sulfate precipitation are also available depending on the antibody to be recovered.

[225] LPHIC:

[226] Following any preliminary purification step(s), the mixture comprising the antibody of interest and contaminant(s) can be subjected to LPHIC. See US Patent No. 6,214,984. Often, the antibody composition to be purified will be present in a buffer from the previous purification step. However, it may be necessary to add a buffer to the antibody composition prior to the LPHIC step. Many buffers are available and can be selected by routine experimentation. The pH of the mixture comprising the antibody to be purified and at least one contaminant in a loading buffer is adjusted to a pH of about 2.5-4.5 using either an acid or base, depending on the starting pH. The loading buffer can have a low salt concentration (e.g., less than about 0.25 M salt).

[227] The mixture is loaded on the HIC column. HIC columns normally comprise a base matrix (e.g., cross-linked agarose or synthetic copolymer material) to which hydrophobic ligands (e.g., alkyl or aryl groups) are coupled. One example of an HIC column comprises an agarose resin substituted with phenyl groups (e.g., a Phenyl SEPHAROSETM column). Many HIC columns are available commercially. Examples include, but are not limited to, Phenyl SEPHAROSE 6 FAST FLOWTM column with low or high substitution (Pharmacia LKB Biotechnology, AB, Sweden); Phenyl SEPHAROSETM High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); Octyl SEPHAROSETM High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); FRACTOGELTM EMD Propyl or FRACTOGELTM EMD Phenyl columns (E. Merck, Germany); MACRO-PREPTM Methyl or MACRO-PREPTM t-Butyl Supports (Bio-Rad, California); WP HI-Propyl (C₃)TM column (J. T. Baker, New Jersey); and TOYOPEARLTM ether, phenyl, or butyl columns (TosoHaas, PA).

[228] The antibody is typically eluted from the column using an elution buffer that is the same as the loading buffer. The elution buffer can be selected using routine experimentation in view of the present application. The pH of the elution buffer may be between about 2.5-4.5 and have a low salt concentration (e.g., less than about 0.25 M salt). It may not be necessary to use a salt gradient to elute the antibody of interest; the desired product may be recovered in the flow-through fraction that does not bind significantly to the column.

[229] The LPHIC step provides a way to remove a correctly folded and disulfide bonded antibody from unwanted contaminants (*e.g.*, incorrectly associated light and heavy fragments). The method can provide an approach to substantially remove an impurity characterized as a correctly folded antibody fragment whose light and heavy chains fail to
5 associate through disulfide bonding. Antibody compositions prepared using LPHIC can be up to about 95% pure or more. Purities of more than about 98% have been reported. US Patent No. 6,214,984.

[230] **POST LPHIC:**

[231] Antibody compositions prepared by LPHIC can be further purified as desired using
10 techniques which are well known in the art. Diagnostic or therapeutic formulations of the purified protein can be made by providing the antibody composition in a physiologically acceptable carrier, examples of which are provided below. To remove contaminants (*e.g.*, unfolded antibody and incorrectly associated light and heavy fragments) from the HIC column so that it can be re-used, a composition including urea (*e.g.*, 6.0 M urea, 1% MES
15 buffer pH 6.0, 4 mM ammonium sulfate) can be flowed through the column.

c. Some Uses For Antibodies Described Herein

(i) Generally

[232] **GENERALLY:**

[233] The present invention comprises any suitable use for the antibodies and other
20 binding partners discussed herein. The following provides some of the desired uses, including diagnostic and therapeutic uses. Various diagnostic and therapeutic uses for antibodies have been reviewed in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.* 53:189-
25 204 (1990); and, Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)* 50(8):901-909 (1990), for example.

[234] **ASSAYS:**

[235] The antibodies can be used in immunoassays, such as enzyme immunoassays. BsAbs can be useful for this type of assay; one arm of the BsAb can be designed to bind to a
30 specific epitope on the enzyme so that binding does not cause enzyme inhibition, the other arm of the antibody can be designed to bind to an immobilizing matrix ensuring a high enzyme density at the desired site. Examples of such diagnostic BsAbs include those having

specificity for IgG as well as ferritin, and those having binding specificities for horseradish peroxidase (HRP) as well as a hormone, for example. Monoclonal and polyclonal antibodies are also exemplary antibodies for immunoassays.

[236] The antibodies can be designed for use in two-site immunoassays. For example, two antibodies are produced binding to two separate epitopes on the analyte protein; one antibody binds the complex to an insoluble matrix, the other binds an indicator enzyme.

[237] **DIAGNOSTIC USES:**

[238] Antibodies can also be used for immunodiagnosis, *in vitro* or *in vivo* or otherwise, of various diseases or conditions based on the presence or absence of a particular GPCR. Such diseases and conditions include, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and

cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

- 5 [239] To facilitate this diagnostic use, an antibody that binds a particular GPCR, when such is differentially expressed in tumors or other target diseases, can be conjugated with a detectable marker (*e.g.*, a chelator that binds a radionuclide). Examples of tumor-associated antigens being used in a similar fashion include an antibody having specificity for the tumor-associated antigen CEA used for imaging colorectal and thyroid carcinomas and the anti-
10 p185^{HER2} antibody used for detecting cancers characterized by amplification of the HER2 protooncogene. Other uses for the antibodies of the present invention will be apparent to the skilled practitioner in view of the present application.

(ii) Assays

15 [240] ASSAYS:

[241] For certain applications such as some diagnostic and other assay applications, the antibody typically can be labeled directly or indirectly with a detectable moiety. The detectable moiety can be any moiety that is capable of producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ³H,
20 ¹⁴C, ³²P, ³⁵S, or ¹²⁵I; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or HRP.

[242] Any method known in the art for separately conjugating the antibody to the detectable moiety may be employed, including those methods described by Hunter et al.,
25 *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.* 40:219 (1981); and, Nygren, *J. Histochem. and Cytochem.* 30:407 (1982).

[243] The antibodies of the present invention may be employed in any desired assay method, such as competitive binding assays, direct, and indirect sandwich assays, and immunoprecipitation assays. Zola, *Monoclonal Antibodies: A Manual of Techniques*, pp.
30 147-158 (CRC Press, Inc. (1987)).

[244] COMPETITIVE BINDING ASSAYS:

[245] Competitive binding assays rely on the ability of a labeled standard to compete with the test sample analyte for binding with a limited amount of antibody. The amount of analyte in the test sample is inversely proportional to the amount of standard that becomes bound to the antibody. To facilitate determining the amount of standard that becomes bound, the antibody generally is insolubilized before or after the competition, so that the standard, and analyte that are bound to the antibody may conveniently be separated from the standard, and analyte which remain unbound.

[246] BsAbs are particularly useful for sandwich assays which involve the use of two molecules, each capable of binding to a different immunogenic portion, or epitope, of the sample to be detected. In a sandwich assay, the test sample analyte is bound by a first arm of the antibody which is immobilized on a solid support, and thereafter a second arm of the antibody binds to the analyte, thus forming an insoluble three part complex. *See, e.g.,* U.S. Pat. No. 4,376,110. The second arm of the antibody may itself be labeled with a detectable moiety (direct sandwich assays) or may be measured using an anti-immunoglobulin antibody that is labeled with a detectable moiety (indirect sandwich assay). For example, one type of sandwich assay is an ELISA assay, in which case the detectable moiety is an enzyme. Assays are discussed further elsewhere herein in relation to binding partners such as antibodies, and antigenic peptides for particular GPCRs, including assays searching for or using such antigenic peptides, and would be apparent to those skilled in the art in view of the present application.

(iii) Affinity Purification

[247] AFFINITY PURIFICATION:

[248] The antibodies also are useful for the affinity purification of an antigen of interest such as a particular GPCR from sources such as recombinant cell culture or natural sources.

(iv) Therapeutics

[249] THERAPEUTIC USES:

[250] Therapeutic compositions, and uses, etc., for the antibodies described herein will now be discussed. As with other parts of this application, this section does not contain the entire discussion of therapeutic uses or compositions, etc., for antibodies; other sections discuss both antibodies, and therapeutics, and the discussion in this section applies to certain

other aspects discussed herein. Turning to antibodies and therapeutics, the antibodies can be used, for example, for redirected cytotoxicity (*e.g.*, to kill tumor cells), as a vaccine adjuvant, for delivering thrombolytic agents to clots, for delivering immunotoxins to tumor cells, for converting enzyme activated prodrugs at a target site (*e.g.*, a tumor), for treating infectious diseases or targeting immune complexes to cell surface receptors.

[251] THERAPEUTIC FORMULATIONS:

[252] Therapeutic formulations of the antibody can be prepared for storage by mixing the antibody having the desired degree of purity with optional physiologically acceptable carriers, excipients, or stabilizers (Remington's Pharmaceutical Sciences, 16th edition, Osol, A., Ed. (1980), for example in the form of lyophilized cake or aqueous solutions. Acceptable carriers, excipients, or stabilizers are nontoxic to recipients at the dosages, and concentrations employed, and include buffers such as phosphate, citrate, and other organic acids; antioxidants including ascorbic acid; low molecular weight (less than about 10 residues) polypeptides; proteins, such as serum albumin, gelatin, or immunoglobulins; hydrophilic polymers such as polyvinylpyrrolidone; amino acids such as glycine, glutamine, asparagine, arginine, or lysine; monosaccharides, disaccharides, and other carbohydrates including glucose, mannose, or dextrans; chelating agents such as EDTA; sugar alcohols such as mannitol or sorbitol; salt-forming counterions such as sodium; or nonionic surfactants such as Tween, Pluronic, or polyethylene glycol (PEG).

[253] The antibodies also may be entrapped in microcapsules prepared, for example, by coacervation techniques or by interfacial polymerization (for example, hydroxymethylcellulose or gelatin-microcapsules, and poly-[methylmethacrylate] microcapsules, respectively), in colloidal drug delivery systems (for example, liposomes, albumin microspheres, microemulsions, nano-particles, and nanocapsules), or in macroemulsions. Such techniques are disclosed in Remington's Pharmaceutical Sciences, *supra*.

[254] THERAPEUTIC FORMULATIONS -STERILE:

[255] An antibody to be used for *in vivo* human administration should be sterile. This can be accomplished by filtration through sterile filtration membranes, for example prior to or following lyophilization and reconstitution. The antibody ordinarily will be stored in lyophilized form or in solution. Therapeutic antibody compositions generally are placed into

a container having a sterile access port, for example, an intravenous solution bag or vial having a stopper pierceable by a hypodermic injection needle.

[256] THERAPEUTIC ADMINISTRATIONS:

[257] The route of antibody administration is in accord with known methods, *e.g.*,
5 injection or infusion by intravenous, intraperitoneal, intracerebral, intramuscular, intraocular, intraarterial, or intralesional routes, or by sustained release systems as noted below.

[258] The antibody can be administered, for example, continuously by infusion or by bolus injection. Suitable examples of sustained-release preparations include semipermeable matrices of solid hydrophobic polymers containing the protein, which matrices are in the
10 form of shaped articles, *e.g.*, films, or microcapsules. Examples of sustained-release matrices include polyesters, hydrogels (*e.g.*, poly(2-hydroxyethyl-methacrylate) as described by Langer et al., J. Biomed. Mater. Res., 15:167-277 (1981), and Langer, Chem. Tech., 12:98-105 (1982), or poly(vinylalcohol)), polylactides, U.S. Pat. No. 3,773,919; EP 58,481, copolymers of L-glutamic acid and gamma ethyl-L-glutamate, Sidman et al., Biopolymers,
15 22:547-556 (1983), non-degradable ethylene-vinyl acetate, Langer et al., *supra*, degradable lactic acid-glycolic acid copolymers such as the LUPRON DEPOTTM (injectable microspheres composed of lactic acid-glycolic acid copolymer and leuprolide acetate), and poly-D-(-)-3-hydroxybutyric acid, EP 133,988.

[259] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-POLYMERS:
20

[260] While polymers such as ethylene-vinyl acetate and lactic acid-glycolic acid sustain release of molecules for over 100 days, certain hydrogels release proteins for shorter time periods. When encapsulated antibodies remain in the body for a long time, they may denature or aggregate as a result of exposure to moisture at 37°C, resulting in a loss of
25 biological activity and possible changes in immunogenicity. Rational strategies can be devised for antibody stabilization depending on the mechanism involved. For example, if the aggregation mechanism is discovered to be intermolecular S--S bond formation through thio-disulfide interchange, stabilization may be achieved by modifying sulfhydryl residues, lyophilizing from acidic solutions, controlling moisture content, using appropriate additives,
30 and developing specific polymer matrix compositions.

[261] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-LIPOSOMES:

[262] Sustained-release antibody compositions also include liposomally entrapped antibody. Liposomes containing the antibody can be prepared by methods such as those in DE 3,218,121; Epstein et al., Proc. Natl. Acad. Sci. USA, 82:3688-3692 (1985); Hwang et al., Proc. Natl. Acad. Sci. USA, 77:4030-4034 (1980); EP 52,322; EP 36,676; EP 88,046; EP 5 143,949; EP 142,641; Japanese patent application 83-118008; U.S. Pat. Nos. 4,485,045 and 4,544,545; and EP 102,324. Ordinarily the liposomes are of the small (about 200-800 Angstroms) unilamellar type in which the lipid content is greater than about 30 mol. % cholesterol, the selected proportion being adjusted for the optimal antibody therapy.

[263] **THERAPEUTICALLY EFFECTIVE AMOUNT:**

10 [264] An effective amount of antibody to be employed therapeutically will depend, for example, upon the therapeutic objectives, the route of administration, and the condition of the patient. Accordingly, it will be necessary for the therapist to titer the dosage and modify the route of administration as required to obtain the optimal therapeutic effect. A typical daily dosage might range from about 1 μ g/kg to up to 10 mg/kg or more, depending on the factors
15 mentioned above. Typically, the clinician will administer antibody until a dosage is reached that achieves the desired effect. The progress of this therapy is easily monitored by conventional assays.

5. DRUG DESIGN BASED ON THE ANTIGENS HEREIN OR
20 ANTIBODIES THERETO

[265] **DISEASE/CONDITIONS LIST:**

[266] The peptides and antibodies of the present invention can serve as valuable tools for designing drugs for treating various pathophysiological conditions such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-
25 related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (e.g., osteoarthritis, osteoporosis), carcinoma (e.g., basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung
30 small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne

muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (e.g., by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (e.g., anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (e.g., chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved or that would be readily apparent to those skilled in the art in view of the present application.

EXAMPLES

[267] The Examples below provide information as follows: Example 1 relates to the identification and selection of the antigens set forth in Figure 2. Examples 2 to 4 relate to antibody production and purification based on such antigens. Examples 5 to 10 relate to H&E staining. And, Example 11 relates to Western blot analyses.

EXAMPLE 1: SELECTION OF ANTIGENS

[268] Antigenic peptides were derived from the amino acid sequence of a particular GPCR based on analyses of likely antigen-containing regions and specificity of those regions for the protein/gene of interest. The specificity of the antigen peptides (approximately 20 amino acids in length) for antibody generation was determined using the outlined techniques, including BLAST of several public databases. These public databases included but were not limited to GenBank, Swiss Prot Human, Swiss Prot NonHuman, GenPeptH, GenPept M, and

LifeSpan's proprietary databases. With respect to specificity, parameters that precluded the use of a particular peptide included the presence of 6 or more contiguous amino acids with sequence identity to protein(s) other than the protein of interest, the presence of sites of posttranslational modification, including phosphorylation and glycosylation, and highly hydrophobic sequences, which could indicate potential *in situ* localization within the plasma membrane. The peptides were analyzed for antigenicity using the published algorithm of Hopp, T. P., and Woods, K. R, Proc. Natl. Acad. Sci. U.S.A. 78, 3824-3828, (1981). Additional considerations in antigenic peptide design included 1) selection against sequences with multiple prolines in a row, 2) selection against sequences with multiple serines in a row, 3) selection against sequences with multiple lysines in a row, 4) selection against sequences with multiple arginines in a row 5) selection against sequences with multiple aspartic acids in a row, 6) selection against sequences with multiple glutamic acids in a row, 7) selection against peptides containing methionine or tryptophan, which can become oxidized as a result of the cyclization reaction, and 8) avoidance of stretches of 5 or more amino acids having no uncharged amino acids (which also resulted in a desirable charge to peptide length ratio of at least 1 charge:5 residues). The selected antigenic peptides are set forth in the Sequence Listing and in Figure 2.

EXAMPLE 2: ANTIBODY PRODUCTION SCHEDULE

- [269] Day 0 - Pre-immune serum collection (approximately 5.0 ml). Immunize using 200 µg antigen peptide per rabbit in Complete Freund's Adjuvant.
- [270] Day 14 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [271] Day 28 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [272] Day 42 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [273] Day 49 - First production bleed; obtain 24.0 - 26.0 ml.
- [274] Day 56 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [275] Day 63 - Second production bleed and ELISA analysis.

[276] Day 70 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.

[277] Day 77 - Third production bleed and affinity purification.

5 EXAMPLE 3: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 COUPLING OF PEPTIDE TO CNBR-ACTIVATED SEPHAROSE 4B

[278] Weigh out 0.8 g of CNBr-activated Sepharose 4B (2.5 ml of final gel volume). Wash and re-swell on sintered glass filter with 1 mM HCl, followed by coupling buffer (0.1 M NaHCO₃, 0.25 M NaCl, pH 8.5). Dissolve 10 mg of protein or peptide in coupling buffer.

10 Mix protein solution with gel suspension and incubate 2 hours at room temperature or overnight at 4°C. Block remaining active groups with 0.2 M glycine buffer, pH 8.1. Wash away excess adsorbed protein with coupling buffer, followed by 0.1 M acetate buffer containing 0.5 M NaCl, pH 4.3. Equilibrate the column with phosphate-buffered saline (PBS), pH 7.7.

15 EXAMPLE 4: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 AFFINITY PURIFICATION OF ANTISERUM

[279] Dilute 10 ml of clear antiserum 1:1 with PBS, pH 7.7, apply to affinity column at a flow rate of 0.3 ml/minute, and monitor absorbance of eluate at 280 nm. Collect fractions of
20 unbound material and rinse column with PBS, pH 7.7. Elute bound antibody with 0.2 M glycine, pH 1.85, and collect eluate until absorbance at 280 nm returns to baseline. Neutralize all collected fractions with 1 M Tris-HCl, pH 8.5 immediately after collection. Determine OD at 280 nm, and determine the total OD recovered. Conduct ELISA analysis
25 and the removal of all antibody from the original serum. Concentrate antibody to approximately 2.0 mg/ml and dialyze against PBS with 0.01% NaN₃.

 EXAMPLE 5: PREPARATION OF ANTIBODY DILUTIONS

[280] The purpose of this protocol is to dilute antibodies in solution. Materials include
30 Tris-HCL Buffer with carrier protein and 0.015 M NaN₃ (Dako Antibody Diluent #S0809 (DAKO, Carpinteria, CA); vials containing the antibodies described above or commercial antibodies against the particular GPCR; pipetmen and disposable tips; container of chopped ice; 12 ml Dako reagent tubes; and, reagent tube rack.

[281] The procedure is a) calculate proportions of antibody and diluent according to desired concentrations and volume requirements; b) label reagent tubes and place in rack; c) pipette needed volume of diluent into tube(s); d) place vials of antibodies into ice; e) invert and/or flick antibody vial(s) 3 or 4 times to insure suspension; f) pipette required volume of antibody(s) into corresponding diluent volumes; and, g) mix gently.

EXAMPLE 6: PREPARATION OF AUTOSTAINER SOLUTIONS

[282] The purpose of this protocol is the preparation of concentrated solutions for use in a DAKO autostainer. Materials include DAKO[®] TBST (Tris Buffered Saline Containing Tween-S3306), 10X Concentrate, DAKO[®] Target Retrieval Solution, 10x Concentrate (S1699), deionized H₂O, 20L container, with lid, marked at the 10L level, DAKO[®] TBS (Tris Buffered Saline-S1968), and DAKO Tween[®] (S1966).

[283] The procedure to make TBST 10x Concentrate is a) pour 2 500 ml bottles DAKO[®] TBST into a 20 L container, b) add deionized H₂O until solution level is at 10 L mark, c) replace lid and shake 10 to 20 times, d) pour diluted DAKO[®] TBST into autostainer carboy(s) as designated. The procedure to make Target Retrieval Solution is a) measure 135 ml of deionized H₂O and pour into slide bath, b) measure 15 ml of DAKO[®] Target Retrieval solution, c) add to H₂O, and d) agitate. This solution is then used in the steam method of target retrieval, Example 9, below. The procedure to make TBS is a) fill 20L container to 10L mark with deionized H₂O, b) add 2 envelopes of DAKO[®] TBS, c) add 5 ml of DAKO TWEEN[®], and d) replace lid and agitate 10 to 20 times.

EXAMPLE 7: PREPARATION OF SOLUTIONS FOR ANTIBODY DETECTION

[284] Solutions for antibody detection are prepared using Vector[®] Biotinylated antibody (BA series), Vectastain[®] ABC-AP Kit (AK-5000), 10 mM sodium phosphate, pH 7.5, 0.9% saline (PBS), Vector[®] Red Alkaline Phosphatase Substrate Kit I (SK-5100), and 100 mM Tris-HCl, pH 8.2 Buffer. To prepare biotinylated antibody, add 10 ml of PBS to reagent tube, add 1 drop biotinylated antibody to the PBS, then mix gently. To prepare ABC, to 10 ml of PBS, add 2 drops each of Reagent A and Reagent B, mix immediately, then allow to stand 30 minutes before use. To prepare AP Red, which should be prepared immediately

before use, to 5 ml of Tris-HCl buffer, add 2 drops of Reagent 1 and mix well, add 2 drops of Reagent 2 and mix well, then add 2 drops of Reagent 3 and mix well.

EXAMPLE 8: DEPARAFFINIZATION AND REHYDRATION OF SAMPLES

[285] The purpose of this protocol is to remove paraffin from and rehydrate preserved tissues in preparation for IHC procedures. Materials and equipment include fume hood, vertical slide rack(s), three xylene (VWR #72060-088) baths, three 100% alcohol blend (VWR #72060-050) baths, two 95% alcohol blend (VWR #72060-052) baths, one 70% alcohol blend (VWR #72060-056) bath, and Tris-Buffered Saline (DAKO® S1968) + Tween® (DAKO S1966).

[286] Insert the slides into the vertical rack(s). Move slides through baths inside fume hood as follows:

Xylene 5 Minutes
Xylene 5 Minutes
Xylene 5 Minutes
100% Alcohol 2 Minutes
100% Alcohol 2 Minutes
100% Alcohol 1 Minute
95% Alcohol 2 Minutes
95% Alcohol 2 Minutes
70% Alcohol 1 Minute

[287] Finally, place slides into a container with TBST.

EXAMPLE 9: STEAM METHOD OF TARGET RETRIEVAL

[288] The purpose of this protocol is to optimize antibody binding within paraffin embedded tissues. Materials and equipment included a steamer, deionized H₂O, target retrieval solution, 10X concentrate (DAKO #S1699), 250 ml graduated cylinder, 15 ml graduated cylinder, staining dish(es), and deparaffinized and rehydrated tissue on microscope slides in immersed TBST. The procedure is to a) fill the steamer with deionized H₂O to appropriate depth as indicated, b) turn the steamer on, c) in a graduated cylinder, measure 135ml of deionized H₂O and pour into staining dish(es), d) pipette 15ml of target retrieval solution and release into deionized H₂O, e) place the staining dish(es) into the basket of the steamer and heat for at least 10 minutes to preheat, f) add rack(s) containing tissue slides to heated target retrieval solution, g) cover and steam for 20 minutes, h) remove container from

steamer and let stand at room temperature for 20 minutes, i) transfer rack(s) with slides to container(s) of TBST, and j) slides are now ready for staining procedures.

EXAMPLE 10: ANTIBODY DETECTION

- 5 [289] The deparaffinized, rehydrated, and steamed (if needed) slides are loaded onto racks within a DAKO autostainer and then the autostainer is run according to the manufacturer's instructions. The slides are removed and the autostainer is turned off.

EXAMPLE 11: WESTERN BLOTTING

- 10 [290] The purpose of this protocol is to visualize the immunoreactivity of the antibodies described above against the particular GPCR on a western blot. Materials and equipment included western blot membrane, TBS Tween (TBST: 100 mM Tris-HCl pH 7.5, 150 mM NaCl, 0.1% TweenTM 20), 5% non-fat dried milk in TBST (blotto), antibody of interest (primary), peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) (secondary) –
15 Jackson ImmunoResearch, ECL solution (Amersham Biosciences, Uppsala Sweden), film, developer D-19, fixer, rocking platform.

- [291] During the blotting procedure, the blot is kept wet at all times and on a substantially level surface. The Western blot is placed right-side up in 10 ml of blotto. The membrane is flipped over and the dish rocked so that the solution covered it. The membrane is then
20 flipped back to the right side and solution is again rocked over it. The blot is then placed on a shaker for at least 1 hour. Ten ml of primary antibody are prepared by diluting 1:500 in blotto.

- [292] The blotto is removed from the Western blot and replaced with the primary antibody. The blot is flipped again and placed on the shaker for 1 hour. Secondary antibody
25 and peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) are prepared 1:20,000 in 10 ml of blotto. The primary antibody is removed and the Western blot is washed 3 times with 10 ml of blotto. The blotto is removed and replaced with the secondary antibody solution. The blot is flipped and placed on the shaker for 1 hour. The secondary antibody is removed and the blot washed 2 times with 10 ml of blotto. The blotto is removed and the blot is
30 washed 2 times with 10 ml TBST. ECL is prepared by combining equal amounts of Solution 1 and 2.

[293] The blotto is removed and 1 ml of ECL is placed on the blot. The blot is flipped and let sit for 1 minute. The blot is placed on plastic wrap and immediately covered with plastic wrap. The ECL is pressed out. The blot is placed on the film, then the film is developed.

5

[294] From the foregoing, it will be appreciated that, although specific embodiments of the invention have been described herein for purposes of illustration, various modifications may be made without deviating from the spirit and scope of the invention. Accordingly, the invention includes all permutations and combinations of the subject matter set forth herein

10 and is not limited except as by the appended claims.

WHAT IS CLAIMED IS:

1. An isolated antigenic peptide according to any one of SEQ ID NOS. 692-2292.
- 5 2. An isolated antigenic peptide comprising an amino acid sequence that is at least about 90% identical to a sequence set forth in any one of SEQ ID NOS. 692-2292.
3. An isolated antigenic peptide that is an analog of an antigenic peptide according to any one of SEQ ID NOS. 692-2292.
4. An isolated antigenic peptide comprising a short antigenic amino acid
10 sequence that is identical to at least 5 consecutive amino acids set forth in any one of SEQ ID NOS. 692-2292.
5. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any one of SEQ ID NOS. 692-
15 2292.
6. A kit for the detection of antibodies against a particular GPCR in a sample comprising:
 - a) an isolated antigenic peptide according to any one of claims 1-5 and derived from the particular GPCR, and
 - 20 b) at least one of a reagent or a device for detecting the antibodies.
7. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151,
25 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187,
30 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.
8. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is at least about 90% identical to any

one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using the peptide sequence that is
5 at least about 90% identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

9. An isolated antibody having high specificity and high affinity or avidity for a
10 particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the
15 peptide sequence that is the analog to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

10. An isolated antibody having high specificity and high affinity or avidity for a
20 particular GPCR comprising a peptide sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced
25 using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

30 11. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955,
5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270,
10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

12. An isolated antibody specific for a particular GPCR comprising a peptide
15 sequence that is at least about 90% identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679,
20 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using the peptide sequence that is at least about 90% identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086,
25 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 13. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is the analog to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

14. An isolated antibody specific for a particular GPCR comprising a peptide 15 sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 20 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 25 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 15. A kit for the detection of antibodies against the particular GPCR of claim 5 comprising:

a) an isolated antibody according to any one of claims 7-14, and

b) at least one of a reagent or a device for detecting the antibody.

16. An assay for the detection of a particular GPCR in a sample, comprising:

a) providing an isolated antigenic peptide according to any one of claims 1-5,

5 b) contacting the isolated antigenic peptide with the sample under conditions suitable and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the particular GPCR present in the sample, to provide an antibody-bound antigenic peptide, and

c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the particular GPCR.

10 17. The assay of claim 16 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.

18. The assay of claim 16 or 17 wherein the sample is an unpurified sample.

19. The assay of any one of claims 15-18 further comprising, prior to the contacting, obtaining the sample from a human being.

15 20. The assay of any one of claims 15-19 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an
20 immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

21. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292.

22. The isolated nucleic acid molecule according to claim 21 wherein the
25 molecule encodes a naturally occurring human antigenic peptide.

23. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in SEQ ID NOS. 692-2292.

24. The isolated nucleic acid molecule according to claim 23 wherein the antigenic peptide is at least about 95% identical to the antigenic peptide.

30 25. The isolated nucleic acid molecule according to claim 23 or 24 wherein the molecule encodes a naturally occurring human antigenic peptide.

26. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292 to genomic DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

5 27. A method of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence wherein the antigenic peptide has a length of about 5 to about 100 amino acids, the method comprising:

 a) searching the candidate polypeptide sequence using a comparison window of the length, and

10 b) selecting against amino acid sequences of the length and having at least 3 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising
15 no charged amino acids.

 28. The method of claim 27 wherein the method further comprises selecting against at least 5 of the characteristics.

 29. The method of claim 27 wherein the method further comprises selecting against at least 7 of the characteristics.

20 30. The method of claim 27 wherein the method further comprises selecting against the 9 characteristics.

 31. The method of any one of claims 27-30 wherein the method further comprises:

 c) selecting against amino acid sequences of the length and having at least one of the following additional characteristics 1) sequences having at least 5 consecutive amino
25 acids that are identical to an alternative amino acid sequence from an alternative polypeptide that is different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences.

 32. The method of claim 31 wherein the posttranslational modification sites are phosphorylation or glycosylation sites.

30 33. The method of claim 31 or 32 wherein the method further comprises selecting against at least 2 of the additional characteristics.

34. The method of claim 31 or 32 wherein the method further comprises selecting against the 3 additional characteristics.

35. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

5 36. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST analysis for the candidate polypeptide sequence.

37. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 50 amino acids.

38. The method of any one of claims 27-36 wherein the antigenic peptide has a
10 length from 6 amino acids to about 20 amino acids.

39. The method of any one of claims 27-36 wherein the antigenic peptide has a length of about 20 amino acids.

40. The method of any one of claims 27-39 wherein the polypeptide is a protein.

41. The method of any one of claims 27-40 wherein the polypeptide is a human
15 protein.

42. The method of any one of claims 27-41 wherein the polypeptide is a naturally occurring protein.

43. An isolated antigenic peptide that is specific for the candidate polypeptide of any one of claims 27-42 that is produced according to the method of any one of claims 27-42.

20 44. An antigenic peptide that is at least about 90% identical to the isolated antigenic peptide of claim 43.

45. An isolated antigenic peptide that is an analog of the isolated antigenic peptide of claim 43.

46. An isolated antigenic peptide comprising a short antigenic amino acid
25 sequence that is identical to at least 5 consecutive amino acids of the isolated antigenic peptide of claim 43.

47. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids of the isolated antigenic peptide of claim
30 43.

48. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 in a sample comprising:

a) an isolated antigenic peptide according to any one of claims 43-47 and derived from the candidate polypeptide, and

b) at least one of a reagent or a device for detecting the antibodies.

49. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 43, wherein the antibody was produced using the isolated antigenic peptide of claim 43.

50. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 44, wherein the antibody was produced using the isolated antigenic peptide of claim 44.

51. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 45, wherein the antibody was produced using the isolated antigenic peptide of claim 45.

52. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 46, wherein the antibody was produced using the isolated antigenic peptide of claim 46.

53. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 47, wherein the antibody was produced using the isolated antigenic peptide of claim 47.

54. The isolated antibody of any one of claims 49-53 wherein the antibody has high specificity and high affinity for the candidate polypeptide.

55. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 comprising:

a) an isolated antibody according to any one of claims 49-53, and

b) at least one of a reagent or a device for detecting the antibody.

56. An assay for the detection of a candidate polypeptide in a sample, comprising:

a) providing an isolated antigenic peptide according to any one of claims 43-47,

b) contacting the isolated antigenic peptide with the sample under conditions suitable and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the candidate polypeptide present in the sample, to provide an antibody-bound antigenic peptide, and

c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the candidate polypeptide.

57. The assay of claim 56 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.

58. The assay of claim 56 or 57 wherein the sample is an unpurified sample.

59. The assay of any one of claims 56-58 further comprising, prior to the
5 contacting, obtaining the sample from a human being.

60. The assay of any one of claims 56-59 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
10 immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

61. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of claims 43-47.

15 62. The isolated nucleic acid molecule according to claim 61 wherein the molecule encodes a naturally occurring human antigenic peptide.

63. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in claims 43-47.

64. The isolated nucleic acid molecule according to claim 63 wherein the
20 antigenic peptide is at least about 95% identical to the antigenic peptide.

65. The isolated nucleic acid molecule according to claim 63 or 64 wherein the molecule encodes a naturally occurring human antigenic peptide.

66. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of claims 43-47 to genomic
25 DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	SpeciesName
526	160397	Latrophilin-2	NP_036434.1	<p>MVSSGCRMRS LWFIIVISFL PNTEGFSRAA LPFGLVRREL SCEGYSIDLRCPGSDVIMIE SANYGRITDDK ICDADPFQME NTD CYLPDAF KIMTQRCNNR TQCIVVTGSD VFDPGPGTY KYLEVQYECV PYIFVCPGTL KAIVDSPCIY EAEQKAGAWC KDLQAADKI YFMPWTPYRT DTLIEYASLE DFQNSRQTTT YKLPNRVDGT GFVVYDGA VF FNKERTRNIV KFDLRTRKS GEAINYANY HDTSPYRWGG KTDIDLAVDE NGLWVIYATE QNNGMIVISQ LNPYTLRFEA TWETVYDKRA ASNAFMICGV LYVVRVYQD NESETGKNSI DYTYNTRLNR GEYVDVPPFN QYQYIAA VDY NPRDNQLYVW NNNFILRYSL EFGPPDPAQV PTTAVTITSS AELFKTILST TSITSQKGP M STTVAGSQEG SKGTKPPPAV STTKIPPITN IFPLPERFCE ALDSKGKWP QTRGMMVER PCPKGTRGTA SYLCMISTGT WNPKGPDLSN CTSHWVNQLA QKIRSGENAA SLANELAKHT KGPVFA GDVS SSVRLMEQLV DILDAQLOEL KPSEKDSAGR SYNKAIVDTV DNLLRPEALE SWKHMNSSEQ AHTATMLLDT LEEGAFVLAD NLEPTRVSM PTENIVLEVA VLSTEGQIQD FKFPLGKGA GSSIQLSANT VKQNSRNGLA KL VFIYRSL GQFLSTENAT IKLGADFIGR NSTIAVNSHV ISVSINKESS RVYLTDPVLF TLPHIDPDNY FNANCSFWNY SERTMMGYWS TQGCKLVDTN KTRTTCACSH LTNFAILMAH REIAYKDG VGH ELLLTVTWV GIVISLVCLA ICITFCFFR GLQSDRNTIH KNLCLNFIA EFIFLIGIDK TKYAIACPIF AGLLHFFFLA AFAWMCLEGV QLYMLVEVF ESEYSRKKYY YVAGYLFPAT VVGVSAAIDY KSYGTEKACW LHVDNYFIWS FIGPVTFIL LNIIFL VITL CKMVKHSNLT KPDSSRLNLIKSWVLGAFAL LCLLGLTWSF GLLFINEETI VMAYLFTIFN AFQGVFIF HCALQKKVRK EYGKCFRHSY CCGGLPTESP HSSVKASTTR TSARYSSGTQ SRURRMWNDT VRKQSESSFI SGDINSTSTL NQGHSLNNAR DTSAMDITLP NGNFNNSYSL HKGDYNDVSQ VVDCGLSLND TAFEKMIISE LVHNNLRGSS KTHNLELTP VKPVIGGSS EDDAIVADAS SLMHSNDNPGLELHKELEAP LPQRTTHSL YQPQKKVKSE GTDSYVSQSLT AEAEHLQSP NRDSL YTSMP NLRDSPYTES SPDMEEDLSP SRRSENEIDY YKSMPNLGAG HQLQMCYQIS RGNSDGYIIP INKEGCIPEG DVREGQMQLV TSL ccgcgcctgg gagacagcga gccagagcti gggigtigt gccagagcca cggcgggggc tggggcgcatg gctgaaggct gcgctctgca acctgaaga gccgcctgcat tgaagaggcca gggacagggga gaccggctgcg atggcagagc gcggccccc cgcctgcggc gggccggccc ggcctggcctg gccctgcggc cggactgcg aaggggccga gccgcgcgg gcagcgggaa gggcgaaact ccggagcggc gcgtccctgc gccctgcggc cggactgcg aaggggccga gccgcgcgg accgcggagg aagagacccc cgcctccagcc cgcagggccc cggccgggg gccagggggg acatcggagag gccagcggagc gagcagcggc gcgggagagg ccggcgcggg agggggcccgc cggccggggc agcaatggcc cggccggctg cttcctggcc ctggggctgc tgggctggc cggggccagc ggcggcggc cgcctctgc cgcggcgccc tgcagctggc acggcgacgg tcgggtggac tgcctgggga aggggctggc ggcctggccc gaggggctca ggccttcac ccaagcgcg galatcagta tgaacaacat tactcagtig ccagaaagat cattaaaga ctttcctt cagaagagc tacaatggc gggcaacgac cttcttta tcaccccaaa ggcctgcti ggggtgaag aactcaaat tcaacgctc cagataatc agttgaataac agttaccagt gaagccatic gaggggctgag tgccttgag tcttgctg tagatgccaa ccalatcacc tcatgcccg aggcaggtti tgaaggact</p>	P	Homo sapiens
527	160411	G Protein-Coupled Receptor GPR48	NM_018490	<p>SLMHSNDNPGLELHKELEAP LPQRTTHSL YQPQKKVKSE GTDSYVSQSLT AEAEHLQSP NRDSL YTSMP NLRDSPYTES SPDMEEDLSP SRRSENEIDY YKSMPNLGAG HQLQMCYQIS RGNSDGYIIP INKEGCIPEG DVREGQMQLV TSL ccgcgcctgg gagacagcga gccagagcti gggigtigt gccagagcca cggcgggggc tggggcgcatg gctgaaggct gcgctctgca acctgaaga gccgcctgcat tgaagaggcca gggacagggga gaccggctgcg atggcagagc gcggccccc cgcctgcggc gggccggccc ggcctggcctg gccctgcggc cggactgcg aaggggccga gccgcgcgg gcagcgggaa gggcgaaact ccggagcggc gcgtccctgc gccctgcggc cggactgcg aaggggccga gccgcgcgg accgcggagg aagagacccc cgcctccagcc cgcagggccc cggccgggg gccagggggg acatcggagag gccagcggagc gagcagcggc gcgggagagg ccggcgcggg agggggcccgc cggccggggc agcaatggcc cggccggctg cttcctggcc ctggggctgc tgggctggc cggggccagc ggcggcggc cgcctctgc cgcggcgccc tgcagctggc acggcgacgg tcgggtggac tgcctgggga aggggctggc ggcctggccc gaggggctca ggccttcac ccaagcgcg galatcagta tgaacaacat tactcagtig ccagaaagat cattaaaga ctttcctt cagaagagc tacaatggc gggcaacgac cttcttta tcaccccaaa ggcctgcti ggggtgaag aactcaaat tcaacgctc cagataatc agttgaataac agttaccagt gaagccatic gaggggctgag tgccttgag tcttgctg tagatgccaa ccalatcacc tcatgcccg aggcaggtti tgaaggact</p>	A	Homo sapiens

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acagggggcgtg acctggctc tcaacaagat ctcaagcalt cctgacttg catttaccac ctttaccag cgggtatgt tgcalttca
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caaagggtgt gtttgtgaaaca ggaattctac taccagctgt gcatgtatc acattgtcag ggcacacctga cgtttgtgga
ctgttgtgaa tctgtttt taacaagcc agtatcatg aaacacttga taaatcaca cagctgtctt gcatgttgtag tggcttgt
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gttatttca agaaacaggt gcttaataa taaatgtgtt aaaaatgcaa tggccaagca atgtatgcat tttttgaag aaataatga
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ttaataag gaaagggga gtaataatga caggaaglac ttatgttat ttctatgtga gttgttat ctggaacctg tctatataa
tggaaattc calactit cccatataa tttttata aagagccat tcaatagctc agaggttga cttgtgttaa acaagataat

528	160411	G Protein- Coupled Receptor GPR48	NP_060960.1	P	Homo sapiens
<p>atgttattaa taataataga agaagaaga alaaagctta gtctgtgtc tttaaaatt aaaaatttta ctgattocc alctatgggc ttaaaccta ttactgggtg gactttaaa gtaataatg ttcaataatg ttttgaca gtgtgctaaa tcaatagcaa acccactggc atattgta ttctgaatat actaaaaaa tccagctaga ttgagttta ataatatca ttgataact gtgcatataa tgaatttta tctatgttaa attatttta gaaacacaagt tgggaaagt ggcttgtt catttggt aataaagt acctoctaaa ctatagtggc tgcagtagc agactgttaa atgttggtt atatacttt tgcattgtaa atagctttg ttgtacatg tcaagtgtat aaaaacagaa tcttgata tcaaaatcat gtagttgta taaaatgtg gaaggattta ttacacatg gtaagaaat ctaatttaca agtttaaaa atgtatca tgalattta cacatctgt aataattaaa tcaatactg gtaagaaat ctaatttaca aggtttttc caaaattcag gtatgaaa attttcatt ttattcatt aaaaactaga ataacagata taaagaagt ttaattctg tctatagg tatgaatac aatattgac tcaagtgtt gaattattaa agttctaga aagcaaaaa a</p> <p>MPGPLGLLCF LALGLGSAG PSGAAPPLCA APCSCDGD RR VDCSGKGLTA VPEGLSAFTQ ALDISMNNIT QLPEDAFKNF PFLEELQLAG NDLSFHPKA LSGLKELKV TLQNNQLKTV PSEAIRGLSA LQSLRLDANH ITSVPDSFE GLVQLRHLWL DDNSLTEVPV HPLSNLPTLQ ALTLALNKIS SIPDFAFTNL SSLVVLHLHN NKIRGLSQHC FDGLDNLETL DLSYNNLGEF POAIKARPSL KELGFHSNSI SVIPDGA FDG NPLLRTHLY DNLPSFVGN SASHNLSDLHS LVIRGASMVQ QFPNL TGTVH LESLTLTGK ISSIPNNLCQ EQKMLRTLDL SYNNIRDLPS FNGCHALEEI SLQRNQIYQI KEGTFQGLIS LRILDLRNL IHEIHSRAFA TLGPITNLDV SFNELTSFPT EGPNGLNQLK LVGNFKLKEA LAAKDFVNLR SLSVYAYQC CAFWGCD SYA NLNTEDNSLQ DHSVAQEKGT ADAANVTSTL ENEEHSQIII HCTPSTGAFK PCEYLLGWSM IRLTVWFIL VALFFNLLV LITFASCTSL PSSKLFIGLI SVSNLFMGY TGILTFLDV SWGRFAEFGI WWETGSGCKV AGFLAVFSE SAIFLLMLAT VERSLSAKDI MKNGKSNHLK QFRVAALSAF LGATVAGCFP LFHRGEYSAS PLCLPFTGE TPLSGFTVTL VLLNSLAFL MAVIYTKLYC NLEKEDLSEN SQSSMIKHVA WLIFTNCIFF CPVAFSFAP LITAISPE IMKSVTLIFF PLPACLPVL YVFFNPKFKE DWKLLKRRVT KKS GSVSVSI SSQGGCLEQD FYDYDCGMYSH LQGNLTVDCD CESFLLTKPV SCKHLIKSHS CPALAVASCQ RPEGYWSDCG TQSAHSDYAD EEDSFVSDSS DQVQACGRAC FYQSRGFPLV RYAYNLPRVK D</p>					
529	160435	LS160435 Receptor	AX147830	A	Homo sapiens
<p>aactggaaagg gcagccgtct gcgcccacag aacactct caagcactt gagtgaccac ggcttgcaag ctgggtggctg gcccccgag tccgggctc tgaggcacgg ccgtcgactt aagcgtgca tctgttaacc tggagacct ctgagctctc acctgtact tctgcgcgtc ctctgcaca gagcccgaggc gaggaacctt ccaggatgca gggtccgaac agcacggcc cggacaacgc gacgtgcag atgtctgcgga acccgcgcat cgcgggtggc ctgcgcgtgg tgtactcgtt gggtggcgcg gtcagcatcc cgggcaacct ctctctctg tgggtgtgt ggcgggcgat gggtggccaga tcccggtgg tcatctcat galcaacctg agcgatcagg acctgatct ggccagcgtg ttgccttc aaactacta ccattgcaac cggccacct gggtattcgg gggtgtgtt tgcacgtgg tgcacgtgg cttttacga aacattat ccagcatcct caccatgacc tgtatcagcg tggagcgctt cctgggggtc ctgtaccgc tcaagtcaca ggcgtggcgcc cgcgcgtgtt acggtggcg cgcgtgtgca gggaacctggc tgcgtctctt gacggccctg tcccgctgg cgcgcacga tctcaactac ccgggtgacg ccctggggcat calcactgc ttgaggtcc tcaagtggac gatgtccccc agcgtggcca tgggtggcgt gtctcttc accalcitca tctgtgtt cctatcccg ttgtgtatca ccgtggcttg ttacagggcc accatctca agctgttgg cacggaggag gcgcacaggcc gggaagcagc gggtggccgtgg ccgggtgggt ctgtcggcc ttgtcacct</p>					

530	160435	LS160435 Receptor	LR80	<p>gcttcgccc caacaattc gctcctcctg gcacacatcgt gaggccgctg ttctacggca agagctacta ccacgtgtac aagctcacgc tctgtctcag ctgcctcaac aactgtctgg accgttgtt ttattctt gcgtccggg aattccagct ggcctcggg gaattattgg gctgcgcgcg ggtgcccaga gacacctgg acacgcccgc gaggccgct ttctccgcca ggaccacgic cgtgc-gctcc gaggccgctg cgcacccaga agggatgagag gaggccaca ggcocggcct ccaggaggcag gaggatgtgt tctgagtcc gggggcgcag ctggagagc gggggcgcga gcttgagga tcaaggggcg catggagagg ccacgggoc agaggttcag ggaagacagc tgcgtgtc ccaggcactg cagagggccc gtagggagagg gtcctcaggc ttattctc ccaggcactg cagaggcacc ggtgaggaag ggtctcagg ctacacagc gtagagga gtagagga caagcaagc ccaggcagc acagggtgt tttatctg cagagggtgc ctgcctct ctgtgtcagg gtagaggtg tgcaccag ccggctaat ttgttatt ttttatg agcgtggctg tcaacccga gctcttga cactcac accgtcat accggaggt ggtatitcaa ccagcccaac cgcctaccg actgggttc tggatctt ctgtggcgga actgcagagc ccattccag ctctctcc tgcgtgacalc gtcctiagc acactgtcc ataccggag atggatatic aaaccgccc accgctiacc cgcctgggt tctggalat ctctgtgggc gaactgcag cccattccc agctcttc ctgtgtgaca tgccttca gttgtgttc tggcctctc cattcttc cagggttct ggtctcga gcccgtgca cgcggaat tctgttatt tcatcagg gcactgtgt tgcgtgtgt ggaattctc tttagagga ggcctgggg cctctgcaag tcaactact tccgtgcca ctccctca cacacacac ccctcgtgc cgaatc</p>	P	Homo sapiens
531	160889	Platelet Activating Receptor Homolog (H963)	NM_013308	<p>MQVFNSTGPD NATQLMRNP AIAVALPVVY SLVAAVSIPG NLFSLWVLCR RMGPRSPSVI FMNLSVTDL MLASVLPFQI YYHCNRHHWV FGVLNCNVVT VAFYANMYSS ILTMTCSVE RFLGVLYPLS SKRWRRRRYA VAACAGTWLL LLTALSPLAR TDLTYPVHAL GIITCFDVLK WTMLPSVAMW AVFLTFIFIL LFLIPFVTV ACYTATILKL LRTEEAHGRE QRRRAVGLAA VLLAFVTCF APNNFVLLAH IVSRLFYGKS YYHVYKLTLC LSLNNCCLDP FVYFASREF QLRRLREYLGC RRVPRDRLDT RRESLSFART TSVRSEAGAH PEGMEGATRP GLQRQESVF ggaatcgcc aaaggctt atgtctct gaagactgc agcaaggcti gctgagctc acagaagata gccacgtgt ttggaggtg ttgaaagt gattctgaga tcaactgac tgaactggaa tctgtgtt atactiacc agctacaaa ccttgagtc ttaaaaaa ttcttca ataacgagc atcttact tcccaaga tgaacaacag tctgtctc tgcacagti ataaagtct ggagccatc acgtatit ttatttatt ttctgtgt ggaattatg gaagtgtgt tgcacacgtg gctttatc agagaalac gaatcacagg tctgtgaga tctactaat taattgtt acagccgatt tctgtctac tctgtgata ccagtgaaaa ttgtgtga cttgggtgt gcacttggga agctgagat attccatgc caagtaacag cctgcctcat ctatcaat atgtattat caattatct cttagcatt gtcagatg accgtgtct tcaactgaca cacagctgca agatcaccg aatacaagaa cccggattg ccaaatgat atcaacgtt gttgtgttaa tggctctct taaatgggt ccaaatatga tgaatccat caaagacatc aaggaaaaagt caaatgtgg tgtatggag ttaaaaaagg aaattggcat tigtgtgaca attctatg ttagcaata ttittaaat tctagcat cattuaata tcaatgcc ttgtaatg acagcttac agaaacaaag ataatgaaaa ttaccataat gtagaaaaagg ctctatcaa calacttia gtagaccag gctacatcat atgttgtt ccttaacca tigtccgaaat ccgtatacc ctacggcaga cagaagatcat aactgtatg tcaaccagga ttactctt caaagccaaa gaggctacac tgcctcggc tgtgtgaaac ctgtgtgtg atctatct gtaatacac ctctcaaaag cattcgcic aaaggctact gaggcttgg cctacctaa agagaccaag gctcagaaa gaaaaataa atgtgaaat aatgtcaaaa agacagga ttgtgtga ccaattcgg cctactgga ccataaagt aattatgct tgaagata aaaaaaaa aaaaaggccc gc</p>	A	Homo sapiens
532	160889	Platelet Activating Receptor	NP_037440.1	<p>MTNSSFFCPV YKDLEPFTYF FYLVFLVGII GSCFATWAFI QKNTNHRCSV IYLNLLTAD FLLTLALPVK IVVDLGVAPW KLKIFHCQVT ACLIYNMYL SIIFLAFVSI DRCLQLTHSC KIYRQEPGF AKMISTVVWL MVLLIMVPNM MPIKDIKEK</p>	P	Homo sapiens

[illegible]

535	161214	Galanin Receptor GalR3	NM_003614	<p>GKRRSSLDGS ESAKTSLQVT NLVSAIVFLY DSLTGVPLV VSFSLKSDS APPWMVLAVL WCSMAQTLIL PSFIWSCERY RADVRTVWEQ CVAIMSEEDG DDDGCCDDYA EGRVCKVRFD ANGATGPGSR DPAQVKLLPG RHMLFPPLER VHYLVPLSR RLSHDETNI STPREPGSFL HKWSSDDIR VLPQSRALG GPPEYLGQRH RLEDEEDEEE AEGGGLASLR QFLESGLVGS GGGPPRGPGF FREEITTFID ETPLPSPTAS PGHSPRRPRP LGLSPRRLSL GSPESRAVGL PLGLSAGRRC SLTGEESAR AWGSGWPGN PIFPQLTL</p> <p>tccaggtgc cgtctgatg gggagatggc tgaigccag aacattcac tggacagccc agggagatgag ggggocgtgg cagtccctgt ggttttggc ctattcttc tgcitggcac agtgggcaat gggctgtgtgc tggcagtgct cctgcagcct ggcccgatg cctggcagga gctggcagc accagggacc tgtatcct caacttggcg gttgctgacc tctgtcat cctgtgtgc gttcccttc agggccacct ctacagctg gatgocitggc tcttggggc cctgtgtgc aaggocgtgc acctgtcat ctactacc atgtaccca gcagctttac gctggctgt gttccgtgg acagtactt ggcctgtgcg cabcctgc gctgcgcgc cctgcgcacg ccggctaacg cccggccgc agtggggctg gttggctgc tggcgggcgt cttctggcg cctactca gctactacg caccgtggcg taccggcg tggagctctg cgtgcccg tggagggacg cgccggcg ggcctggac gttggccact tgcitggcg ctactgtgc cctgtgtgc tggtagctt ggcctacggg cgccagctgc gcttctgt ggcggccgtg gttccggcg gctggcgcg ggcggggcg ggcggggcg ggcggggcg cgccggcg ggcagctgc ggtgtgtgc gctgtacg ctctgtgg gttccgacca cgtgtctc cttgtctt ggtagggcg cttgccttc agccggcca cctacgctg ccgctggcg tccactgc tggcctacg caactctgc ctaacccg tctgtacg gctgcctgc cgcacttc ggcggcg cctt cgcggcgctg tggcggtgc ggcggcgacg cgccacgt gcccgcgcg cttgtgtgc gttccggcg gctgtctgc gccaacgg cgtcccgga gacggccggc ctagcggag gctgtgtgt ggtggcgcc agggccggg gccaaggag ggcacgtcc accggcgga ggtgtccga ggaccggat aacactgc gctggact cgtctgt</p>	A	Homo sapiens
536	161214	Galanin Receptor GalR3	NP_003605.1	<p>MADAQNISLD SPGSVGAVV PVVFLIFLL GTVGNGL VLA VLLQPGPSAW QEPGSTIDLF ILNLAVADLC FILCCVPFQA TITLDAWLF GALVCKAVHL LIYLTMYASS FTLAASVDR YLAVRHPLRS RALRTPNAR AAVGLVWLLA ALFSAPYLSY YGTVRYGALE LCVPAWEDAR RRALDVATFA AGYLLPVAVV SLAYGRTLR LWAAVGPAGA AAEEARRRAT GRAGRAMLAV AALYALCWGP HHALICFWY GRFAFSPATY ACRLASHCLA YANSCLNPLV YALASRHFA RFRLWPCGR RRRHRARRAL RRVRPASSGP PGCPGDARPS GRLLAGGGQG PEPREGPVHG GEAAARGPE</p> <p>atggcgctga ccccgatgc ccgagcagc ttccctgggc tggccggcac cggcagctct gttccggagc cgtctggcg cccaacgca acctcaaca gctctgggc cagcccgacc gaggccagct ccttggagga cttgttggcc acggcgacca ttggagctct atgtggcg tggcggtg tggcggtg gggcaacgcc tacacgtgc tggtagctgc cgtctccctg cgttgggtgg cttccatga cgtctacg gtcaactgg cgttggcg cctgtgtac cttctcagca tcccttcat cgttggccac taccitacca agggatggca cttcggggac gttggctgc gctgtctt cggcctggac ttcttgaaca tgcagccag catcttacc cttacggca tggagcagga gctgtacg gttggctgc ggcggcttgg caaccgtgcag cgccccaagg gctacggcaa gctgtgtgc cttgggcaact ggtgtgtgc acgtgtcccg tgaigtgtgc cattgggtgc gttggcggg gttccaaagg cttgtgtgc ccccgctgg ggcggcgcc ccaaccggcc taccgtgacg tctcttgc caccagc gtcggggccgg ggtgtgtcat cgtgtgtc taccggcg tggccggcg ctaccggcg tgcagcgcg cctcttcaa gtcggggccgg cggccggggcg cgtgtgtc gctgtgtc tggcgctacg tctgtctt</p>	P	Homo sapiens
537	161221	Urotensin-II Receptor (GPR14)	NM_018949	<p>atggcgctga ccccgatgc ccgagcagc ttccctgggc tggccggcac cggcagctct gttccggagc cgtctggcg cccaacgca acctcaaca gctctgggc cagcccgacc gaggccagct ccttggagga cttgttggcc acggcgacca ttggagctct atgtggcg tggcggtg tggcggtg gggcaacgcc tacacgtgc tggtagctgc cgtctccctg cgttgggtgg cttccatga cgtctacg gtcaactgg cgttggcg cctgtgtac cttctcagca tcccttcat cgttggccac taccitacca agggatggca cttcggggac gttggctgc gctgtctt cggcctggac ttcttgaaca tgcagccag catcttacc cttacggca tggagcagga gctgtacg gttggctgc ggcggcttgg caaccgtgcag cgccccaagg gctacggcaa gctgtgtgc cttgggcaact ggtgtgtgc acgtgtcccg tgaigtgtgc cattgggtgc gttggcggg gttccaaagg cttgtgtgc ccccgctgg ggcggcgcc ccaaccggcc taccgtgacg tctcttgc caccagc gtcggggccgg ggtgtgtcat cgtgtgtc taccggcg tggccggcg ctaccggcg tgcagcgcg cctcttcaa gtcggggccgg cggccggggcg cgtgtgtc gctgtgtc tggcgctacg tctgtctt</p>	A	Homo sapiens

538	161221	Urotensin-II Receptor (GPR14)	NP_061822.1	<p>ctgggctgct tcttgccct tctggctgtg gcagctgctc gccagctacc accaggccccc gcctggggccc gcggagggcgc gcatgctcaa ctactgacc acctgctca cctacggcaa cagctgccc aacccttcc tctacagct gctcaccagg aactaccgc accacttgc cggccgcgtg cggggccgg gcagcggggg aggcggggg cccgttccct cccgtcagcc ccggccgc ttcagcgtc gtcggccgc ctcctgtct tccctgagc cagacccac tgcagcctc gtcgtggccc cagggccc ggcagact ggcggagg gtcocaggc cccggcgga MALTPESPSS FPGLAATGSS VPEPPGGPNA TLNSSWASPT EPSLLEDLVA TGTTGTLSSA MGVVGVVGN YTLVVTCSRSL RAVASMYVYV VNLALADLLY LLSIPFIVAT YVTKWHFVGD VGCRLVFLGLD FLTMHASIFT LTVMISSERYA AVLRPLDVTQ RPKGYRKLLA LGTWLLALL TLPVMLAMRL VRRGPKSLCL PAWGPRAHRA YLTLLFATSI AGPGLLIGLL YARLARA YRR SQRASFKRAR RPGARALRLV LGIVLLFWAC FLPFWLWQLL AQYHQAPLAP RTARIVNYLT TCLTYGNSCA NPFLYTLTR NYRDHLRGRV RGPSSGGGRG PVPSLQPRAR FQRCGRSLSS SCSPQPTDSL VLAPAAPARP APEGPRAPA</p>	P	Homo sapiens
539	161249	G Protein- Coupled Receptor GPR66	NM_006056	<p>atggcttgca atggcagctgc ggccaggggg cacttgacc ctgaggacti gaactgacti gacgaggcac tgcactcaa gtactgggg oocagcaga cagagctgtt calgcccac tggccacat actgtctgat ctctggtgtg ggcgtgtgtg gcaatgggtt gaactgtctg gtaactctgc gccacaaggc calgcgcacg cctaccaat actacctt cagcttgccc gtgtcggaac tgcgtgtgtc gctgtgtggc ctcocctgag agctctatga gatgtggcac aactacct tctgtgtgg cgtgtgtggc tgcatttcc gcacgtact gttgagatg gctgtgtggc cctcagctc caacgtcact gccctgagcg tggaaagcta tgtggcgtg gtcacccac tccaggccag gtccatggg acggggccc atgtggccg agtgtgtgg ggcgtctgg gctgtgcat gctctgtcc ctcgccaaca ccagcttcca cggcatccgg cagctgcacg tgcctggcc gggccagctg ccagactcag ctgtttgcat gctgtgtccg ccaggggccc tctacaacat ggtatgtcag accaocggc tgccttctt ctcctgccc atggccaatca tgcagctct ctactgctc atgggtgtc gactgtggcg ggcagggcgt ctgtcagc agggagccaa gggcaggggc tctgcagcag ccaggtccag ataccctgc aggtctcagc agcacglog ggccgggaga caagtgaoca agatgtgtt tgcctggc gttgtgtt gcatctgtg gggccgttc cagccgacc ggctcagctg gaggctcgtg tcaagtgga cagatggctt gcactggcc ttcagcagc tgcagctat ctccggcact ttcttctacc tgggctggc ggccaaccc gttgtctata gctctatgc cagccgttc cgcagagacct tccaggaggc cctgtgctc ggggctgtt gcatcgtct cagacccgc cacagctcc acagctcag caggtatgacc acaggcagca ccctgtgta tgtgggctcc ctggcagct gggccaaccc cctgtgtgg aacgatggcc cagaggcgca gcaagagacc gatacact ga</p>	A	Homo sapiens
540	161249	G Protein- Coupled Receptor GPR66	NP_006047.1	<p>MACNGSAAARG HFDPEDLNLT DEALRLKYLQ PQQTELFMPI CATYLLLFVV GAVGNGLTCL VILRHKAMRT PTNYLYFLSLA VSDLLVLL VG LPLELYEMWH NYPFLGVGG CYFRTLLFEM VCLASVNLNT ALSVERYVAV VHPLOARSMV TRAHVRRVLG AVWGLAMLCs LPNTSLHGIR QLVHPCRPV PDSAVCMLVR PRALYNMVVQ TTALLFFCLP MAIMSVLYLL IGLRLRRL LLMQEAQGRG SAAARSRYTC RLQHDRGRR QVTKMLFVL VVFGICWAPF HADRVMMWSVV SQWTDGLHLA FQHVHVISGI FFYLGSAANP VLYSLMSSRF RETFQEAALCL GACCHRLRPR HSSHLSRMT TGS TLC DVGS LGSVWVHPLAG NDGPEAQQET DPS atggctaac tgcacaaata cactgaaca tcaagatgg gtagcaacag taccagcact gctgaattt actgaattg cactaatgt aaattcaat actccctcta tgcacacc tatactca tatcttcc tggctctg gtaacagtg cagcctgtg gggtctgtgc cgttcaatca gcaagaaaaa taaagccatc atttcaatga tcaaccttc tgggtgtgac ctgtctcatg tattactti</p>	P	Homo sapiens
541	161251	Purinergic Receptor P2Y10	NM_014499		A	Homo sapiens

Homo
sapiens

P

acccttccgg atttactt acaatcagcca ccaatggcct ttccagagagc ccctttgctt gctctgcttc taccigaagt atcicaaat
gtaicagc atttttcc tgaatgcat cagtcttcaa aggttgcttt ttctctcaa gccctcagc gccagagact ggaagcgtag
gtaacatg ggcacatg ctcacatg gacatg ggcactgctt gtttccatt tccatcctg agaagcacag
acttaacaa caacaagtc tctttgctg atcttgata caagcaaatg aatgcatg cgttgctg gtagatata gttgctgagc
ttgcaggat tgtatcca gtaicaca tgcagtggt tacttgaaa actatlat cttgagaca gccaccaatg gcttccaag
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tttttaca calgtaaaag gaaacatca ttgcatg tccgtgttc cgaatgcac tgaattcca ccttttgc ctgtgcttg
caagtctg ctgctttg gatacaatc ttatctt tatgtctca gatttctg accaatc ccgccaatg agttctgta
ccgttccg cctatgagc aaggagagtg gttatcaat gattgctaa

NP_055314.1
Puriner-
Receptor P2Y10

161251

542

Equine
herpesviri
s 2

P

MANLDKYTET FKMGSNSTST AEIYCNVTNV KFQYSLYATT YLIFPGLL
ANSAALWVLC RFISKKNKAI IFMINLSVAD LAHVLSPLR IYYYISHHWP
FQRALCLLCF YLKYLNMYAS ICFLTCSLQ RCFFLLKPR ARDWKRRYDV
GISAAIWIVV GTACLPFPI RSTDLNNKS CFADLGKQM NAVALVGMT
VAELAGFVPI VIIAWCTWK TTISLRQPPM AFQISERQK ALRMVFMCAA
VFFICFTPYH INFYTMVK ETISSCPV RIALYFHPFC LCLASLCLL DPILYFMMAS
EFRDQLSRHG SSVTRSLMS KESGSSMIG
MATTSATSTV NTSSLATTMT TNFTSLTSTV VTTIASLVPS TNSEDDYYDD
LDDVDYEESA PCYKSDITRL AAQVVPALYL LVFLGLGN ILVVIIVRY
MKIKNLTNML LLNLASDLL FLTLFWMH YIGMYHDWTF GISLCKLRG
VCYMSLSQV FCILLTVDR YLA VYAVTA LRFTVTGCI VTCVCTWFLA
GLLSLPEFF HGHQDDNGRV QCDPYPEMS TNVWRRHVA KVMLSLILP
LLIMAVCYV IIRLLRRPS KKKYKAIRLI FVMVAYFV WTPYNIVLLL
STFHATLLNL QCALSSNLDL ALLITKTIVAY THCCINPVY AFVGEKFRRH
LYHFFHTYVA IYLCYIPFL SGDEGKEGP TRI

NP_042597.1
G Protein-
Coupled Receptor
Ls161293
[Herpes virus]

161293

543

Homo
sapiens

A

ggagagaacc cgaatgacc gggccacggc ggtcccccga cctgcccgt cctgcccggc gctgctggct ccggggcatic
gggctggcc ccaatggct cgtccggcgg gaaatcagc gctggggcgg gctggggcgg gcccggcgg gcccggcgg
ggaaatgac cttccccc gcccgaacc cgtcccgic cccggccccc tctggcagc cctggcgg ccggggccc
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NM_006679
Neuromedin K
Receptor-Like
(NK-4R)

177147

544

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 ttaaaat tcaataa gtaacat gattccat ttcttga ggtgtgcccag aagttagaat aatcaagcat aactggcc
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 caagttgg aaattatgta aaatccat ctctgata tggcagaa tttagaa tttaacca atgtttat

545	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	ttaaataatataaataatcatatgaataaat MASPAGNLNSA WPGWGWPPPA ALRNLTSSPA PTASPSAPS WTPSPRGP HPFLQPPWAV ALWSLAYGAV VAVAVLGNLV VIWIVLAHKK MRTVTNSFLV NLAFADAAMA ALNALVNFTY ALHGEWYFGA NYCRFQNFPP ITAVFASIYS MTAIAVDRYM AIDPLKPRL SATATRIVIG SIWILAFLLA FPQCLYSKIK VMPGRTLCTYV QWPEGSRQHF TYHMIIVLV YCFPLIMGI TYTIVGFTLW GGEIPGDTCD KYQEQLKAKR KVVKNMIVV VTFALCWLPY HIYFILTAIY QQLNRWKYIQ QVYLASFULA MSSTMYPNII YCLLNKRFA GFKRAFRCWP FIHVSSYDEL ELKATRLHPM RQSSLYTVTR MESMSVVFDS NDGDSARSSH QKRGTTTRDVG SNVCSRRNSK STSTTASFVS SSHMSVEEGS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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549	177191	Histamine H3 Receptor	NP_009163.1	<p> aactggtact tctatcaac ggtcttcaac ctggaggttct ttacgocctt octcagcgtc accttcttta acctcagcat ctactgaaac atccagaggg gcaccccgctt ccggcttggat gggggtctggag agggcagccggg ccccgagccgc cctccggagg cccagccctc accaccccca ccgctcggct gctgggggctg ctggcagaaag ggggcagccggg agggccatggcc gctgcacagg ttatgggggg gtgagggggc cgtaggcgtt gaggccgggg agggccacct cggggggggg gggggggggg gctocgtggc ttacacac tccagctccg gcaagctctt gagggggacct gaggagggcc gctactcaa gagggggctcc aagccggcgg cgtctcggg ctcgtggag aagcgcagta agatgggttc ccaagcgttc acccagcgtc tggggtgttc tgggggagagg aagggggcca agctcgtggc cgtcagctg agcatctg ggtctcgtg gggccacat acccagcgtc tggggtgttc tggggtgttc tggggtgttc catggccact ggtctcgtg ctactgggtac gaaacctt ctggggctt gggggccac tggggtgttc acctgtct ctactcgt tggccaca gcttccggc ggggtctcacc aagctgtctt gggccacaa gctcacaac cagccacaca gctctcgtg gcactgtctg aagggagggg ccaacagag octccctcag ccacggctct ctacggccag gctctcggg catctggcc tgcggccccc taccggctc gttcccccag gggggggg cggcgtgt gggggccct cttaagcca cggcagccac ccggccatgg agggccctc ctgggtggc caggagggccc ctacgtgt gggagggggg ctgggtggg ggggtgtcc cccatctt ggtccaccc gggggggg gggggggg gctcggaggt cccagagag ctggccaccc cctgctggg ccacccctc gagggtact gttgtgtc ttcccaagc aagcaccgtt gttgtgtc ggtctcgtc octcagcgtt tggctgtc cgtgcacaca cctgcacaca cctgcacaca gttccctcc cggggagag cccagggacct gctgtgtg ctctgtct ctggcaga cctcaggtt ggggtttca cctcttcc caccactt ctgcccccc aaaaagtgtc agggggccct ggaaacctg agctgtctc tcttttcca tctgggtt ttccagaaag atgaaagaa aaacatgtct gttgaggtc agggggccct atgttaac aagagagaca aaatgtc gggagtcagg gctgggtggc cagggtgtt cccacggc cctcctc cgttaaggt tccggctgag ctggccagc tggctgtc caccggct cgggggtcac accagccctt gttggccaag ctggccggc cactgttt gctacacag gactctggg ggtgtggg agggggggg cgggtggg cggaggggtc caaggcgtc agggggggtc caggagaggt gggggggcagg gggccgttc gcatgtgt gggccgtt gggcggct ctgcatctc ctgctgtt gggccgtg ctggccgtc aacgtgtg tccacaaa gttgtttt taaaataa aaaaataa aaaaaa </p>	P	Homo sapiens
550	177387	G Protein- Coupled Receptor ORF4	NM_020155	<p> LYPLCHHSFR RAFTKLLCPQ KLIKPHSSL EHCWK agggccgtt ggttgaacc gagggtatc aggggtct cccctcac cccagagaga catgaagac cggagccagg gaggtctc ctggggctc tgcacccc catctggc tctggggtag gcccagggag gaggaccccc caacccat cgggtctc ctggggaana gagggtccc ttcacgcc ctgaggttag ggggtgggg cagggtgtt gtttccca agggcaagg tctctgtt gaggagggg gctgtcagc cacaactt tctcttga gggccacatc tctctt caccctgcaa ttccacccc tccgttta ttccctgtt cccggcaga gttccctt gttgtctc ggggtttag cctccctcc tgataggg agtaacctt ctggccgtt ggtctgtc cgggtgtt cgggtgtt accctgtt accctgtt tgacagctc ctacacacc ctgtatgcc tctctt ctccgtat gggcagctt ggtgtgtt tctgtatgg cacaagcgtc tactatca gagggtct ctggccctt gttgtctt gggccgtt cgtacaccc tctctt ctactccc gatactccc </p>	A	Homo sapiens

551	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	P	Homo sapiens	<p>gggcaaacg cctggggccc ttgccctctt ggcttctcta ctgctgcccc gctgcctcgc agttctcac ctgacgctt atgaacctt actttggcca gggtgtgtc aaggccaagg tgaagcgcgc ggcggagatg agccaggctt tgcctgcctt cccaggggcc ttgtggggg cctgcctctg ctctctctg gtgaacgtgc ttgtgtctgt gctctccat cggcgcgac agccctgggc cctgtgtt gtccgctcc ttgtgagcga ctccctgttc gtaactcgc cgtgtctgt ttgtgcctgc ctctgcctg ttgccagcgg ggcctctca ctgacatca cctggaggcc aaggtagggc tgcagcactg atgcccagggt gcttttggg tctctggca gggcttca ggggtagag</p> <p>MESNLSGLVP AAGLVPALPP AVTLGLTAAY TTYALLFFS VYAQLWLVL</p> <p>YGHKRLSYQT VFLALCLLWA ALRTTLFSFY FRDTPRANRL GPLPFWLLYC</p> <p>CPVCLQFFTL TLMNL YFAQV VFKAKVKRRP EMRSGLLA VR GAFVGASLLF</p> <p>LLVNVLC AVL SHRRAQPWAL LLVRVLVSDS LFVICALSLA ACICLVASGR</p> <p>PPLASTWRPR</p>
552	180956	Lysophosphatidic Acid Receptor Edg7	NM_012152	A	Homo sapiens	<p>ctctttaaa ttctticta ggaigtctac ttcttctca caatgaatga gttgcactat gacaagcaca tggactttt ttataatagg agcaacactg atactgtcga tgaactggaca ggaacaaagc ttgtgtgtt ttgtgtgtt gggacgtttt tctgcctgtt tatttttt tctaattct tggtaicgc ggcagtgatc aaaaacagaa aaattcatt ccccttacc taccgttgg ctaatttagc ttctgcogat ttctgcctg gaattgcta tgaattctg algtttaaca caggccacgt ttcaaaaact ttgactgtc accgtctgtt tctccgicag gggcttctgg acagtgtctt gactgttcc ctaccaact tgcctgttat cgcctgtggag aggcacatgt caatcagtgg gatgcgggtc calagcaacc tgaacaaaaa gaggggtgaca ctgtcattt tgcctgtctg gggccatcggc attttatgg gggcggtccc cacactgggc tggaaatggc tctgcaact ctctgcctgc tctccctgg ccccaatta cagcaggagt taccgttt ttctggacgt gtccaacdc atggccttcc tcatcagt ttgtgtgtac ctgggacat acgtgttact caagagagaaa accaaagct tgtctccga tacaatggg tcatcagcc gccggagagc accaatgaag ctaatgaaga cgtgtgtgac tgtcttaggg gctgtgtgg tatgtctggac cccggggcctg gtgtgtctgc tctgcaggg cctgaactgc aggcagtgct gctgtcagca tgrtaaaaagg ttgtctcgc tgcctggct gctcaactcc gctgtgaacc ccatcatcta ctctacaag gacgagaca tgaatggcac calgaagaag atgaatctgt gcttctca ggaagaacca gagaaggctc cctctgcac cccctccaca gtctcagca ggaatgacac aggcagccag tacaatggg atagtattag ccaagggtgca gctgtcaata aagcacctc ctacaactg gctgcctc gggccacca ggtgtgact gcttagg</p> <p>MNECHYDKHM DFFYNRSNTD TVDDWTGTLK VIVLCVGTFF CLFIFFSNL</p> <p>VIAA VIKNRK FHFPFYLLA NLAAADFFAG IAYVFLMFT GPVSKTLTVN</p> <p>RWFLRQGLD SSLTASLTNL L VIAVERHMS IMRMVHSNL TKRVTLLIL</p> <p>LVWAIAIFMG AVPTLGWNCL CNISACSSLA PIYSRSLV VFWTVSNLMAFL</p> <p>IMVVVYLRV VYVKKRTNVL SPHTSGSISR RRTPMKLMKT VMTVLGAFV</p> <p>CWTPGLVLL LDGLNCRQG VQHVKRWFLL LALLNSV VNP IYSYKDEDM</p> <p>YGTMMKMICC FSQENPERRP SRPSTVLSR SDTGSQYIED SISQGAVCNK STS</p>
553	180956	Lysophosphatidic Acid Receptor Edg7	NP_036284.1	P	Homo sapiens	<p>atggggcccc gcaaggcgt gctggcgggt ctctgtgtga tggacttgc cgtggcgtc ctatccaacg cactgtgtct gctttgtc gctacagcg ctgagctccg cactcagcc tcaaggctcc tctgtgtgaa tctgtctctg ggcacatgc tctgtggcg gctgtgacat ccttcacgc tgcctgggt gtaagcgggg cgggacaact cggcgcccg cgcaltgcaa gtcattgtt tctgtgacac ctctctggcg tcaaacggcg cgtgtgaggt gggcgcgctg agcgagacc agtggctggc agtgggcttc coactgcgt acccgagacg cctggagccg cgtatgcgg gctctgtct gggctgtgtcc ttggggacagt cgtctggcct ctacaggcgt gcacttggct gctcgtgtgt ttgtctacagc agcgccctcg cgtctgttc gctgcgtc cggcccagc ctgagctcc gctgtcgtca gctttcacgg cactttacca tgcctggggc ttgctgtctg cgtctggcgt gctctgctc acctgctcc aggtgtcaccg ggtggcgacgc agacactgcc agcgcatgga caccgtcac atgaaggcg</p>
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555	189873	G Protein- Coupled Receptor GPR78	CAC3404.1.1		<p>tcgccgtgct cgcgcacctg caccocagtg tgcggcacgg ctgcctcalt cagcagaagc ggccgcgcca cgcgcgcccc aggaaagattg gcattgctat tgcgaccttc ctatctgct ttgcccogta tgcaltgacc aggtctggcgg agctctgfgcc ctctgtacc gtagacgccc agtgggggcat cctcagaag tgcctgaact acagaaggc ggtggccgac ccgttcacgt actctgct cgcgcgccc ttccgccaag tccggccgg calggctgac cggctgctga agagaacccc gcgccagca taccacatg acagctctt ggatgggccc ggcatgggic accagctgct gaagagaacc cgcgcgcccag cgtccacca caagctct gggaacacag agaagatc ctgcctgac cagacacat ga MGPGEALLAG LLVMVLAVAL LSNALVLLCC AYSALRTRA SGVLLVNLSL GHLLAALDM PFTLLGVMRG RTPSAPGACQ VIGFLDTFLA SNAALSVAAL SADQWLA VGF PLRYAGRLRP RYAGLLGCA WQSLAFSGA ALGCSWLGYG SAFASCSRL PPEPRPRFA AFTATLHVG FVLPLAVLCL TSLQVHRVAR RHCQRMDTVT MKALALLADL HPSVRQRLI QQRRRRHRAT RKIGIAIATF LICFAPYVMT RLAEVPFVT VNAQWGILSK CLTYSKAVAD PFTYSLLRP FRQVLAGMVH RLLKRTPRPA STHDSSLDVA GMVHQLLKRT PRPASTHNGS VDTENDSCLQ QTH</p>	P	Homo sapiens
556	189874	Neuromedin U Receptor 2	NM_020167		<p>atggaaaaac ttcaagaagc ttctgggac taccagcaga aactagaaga tccaltccag aaacacctga acagcacga ggagatctg gccttctct cgggacctg gcgcagccac ttcttctcc ccgctctg gggtatgig ccaatttgg tggggggg catggcaat gctctgggtg gcctgggat tctgcagcac caggctatga agacgcccac caactactac ctctcagcc tggcggtctc tgcctctcc gctctctcc ttggaagcc cctggaggic tatgatgt ggccgaacta cctttctg ttggggccc tgggtgcta ctcaagacg gcctcttg agaccgtg ctgcctcc atctcagca tcaccacgt cagcgtggag cgtacgtgg ccatctaca cccgtccg gccaaacgc agagcacccc gcgcggggcc ctacggatcc tcggcatctg ctggggctc tccgtgctct tctctccg caacacagc atccatggca tcaagtcca ctacttccc aatggctcc tggccagc ttgcgccc tgcaggcca tcaagccat gggtatctac aaattatca tccagctac ctctctca ttctacctc tcccatgac tgcatagt gctctact acctatgg acctatgg actcagata aagaagaca aatctctga ggcatgaa gggaalgcaa atatacaag accctcaga aaatcagca acaagatgct gttgtctg gcttagtgt ttggtctcgg ttccatg accgactt ctacgttt gttggaggat ggagtgatc cctggctg gtttcaac tgcctatgt gggtcaggt gtcttctct acctgagct agctgcaac ccatatct ataacctat gctcgcgcg ttccagcag caltccagaa tggatctct tctttocaa aacagtggca cttccagcat gaocacag tgcacctg ccaggggaac atcttctga cagaatgcca ctttggag ctgaccgaag atataggtcc ccaattcca tgcagctat ccaatgcaaa ctctcactc ccaacagccc tctctatga acagatga agaacaact atcaagcti ccaattaac aaacctga MEKLQNASWI YQKLEDPFQ KHLNSTEYL AFLCGPRRSH FFLPVSVVYV PIFVVGIGN VLVCLVILQH QAMKTPNTY LFSLA VSDLL VLLGMPLEV YEMWRNYPFL FGPVGCYFKT ALFETVCFAS ALFETVSVVE RYVAILHPFR AKLQSTRRA LRLGIVWGF SVLFLPNTS IHGKIFHYFP NGSLVPGSAT CTVIKPMWY NFIIQVTSFL FYLLPMTVIS VLYLMALRL KDKKSLEADE GNANIQRPCR KSVNKMLFVL VLVFAICWAP FHIDRLFFSF VEEWSESAA VFNLVHVVS VFFYLSSAVN PIYNLLSRR FQAAFQNVIS SFHKQWHSQH DPQLPPAQRN IFLTECHFVE LTEDIGPQFP CQSSMHNHSL PTALSSEQMS RTNYQSFHFN KT</p>	A	Homo sapiens
557	189874	Neuromedin U Receptor 2	NP_064552.1		<p>atgctggcag ctgccttgc agacttaac tccagcagca tgaatgctc ctgtctac ctccatttg ccgaggga cctgcccct gattccagg actggagaac catcatccg gctctctgg tggctgctg cctgggggc ttctgggaa acctgtgt</p>	P	Homo sapiens
558	189884	G Protein- Coupled Receptor	LG94108		<p>atgctggcag ctgccttgc agacttaac tccagcagca tgaatgctc ctgtctac ctccatttg ccgaggga cctgcccct gattccagg actggagaac catcatccg gctctctgg tggctgctg cctgggggc ttctgggaa acctgtgt</p>	A	Homo sapiens

Ls189884

559 189884 G Protein- ENSMPRT1140 P Homo
Coupled Receptor 67 sapiens
Ls189884

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tgttaaatag

560 189895 G Protein- NM_031936 A Homo
Coupled Receptor GPR61 sapiens

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tccaggccag atag

561 189895 G Protein- NP_114142.1 P Homo
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	Coupled Receptor GPR61							sapiens
					</			

beta)

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570	189945	G Protein- Coupled Receptor Dj287g14.2	AK027843	A	Homo sapiens

571	189945	G Protein-Coupled Receptor Dj287g14.2	BAB55406	<p>gcttgggtatt ttgagatcat gttttttctg aacattgccca tgttcatgtt ggtatagtggt cagatcttgtg gggaggaaatgg caagaagaagc aaccggaccoc tgaagaagaaga agtggtaagg aaccttgcca gttgtgttag ctgaccttt cgtttgggca tgcattggggg ttttgcatc ttgctctggg gaaccttaaa latcccttc atgtacctt tctccattt caattcatta caaggcttat ttatattcat cttccactgt gctatgaagg agaatgttca gaaacagtgg cggcgccatc tctgtctgg tagatttcgg tttagcagata actcagattg ggtatagaca gctaccaata tcatcaagaa aagtcttgat aattcttgat aatcttgct ttaagctcc atttggtcca actcaacctt tctatcatoc aaatctaaat ccagctctac cacttattc aaagggaata gcaacacaga taalgctctoc tatgagcatt ccttcaacaa aagtggatca ctacagacagt gcttccatgg acaagtcctt gccaacatgg gccaatctg atggagatca aacatcaatc atccctgtcc atcagggtcc tgaataggc aagggttatt gcaatgctca ttgagacaac ttctataaa atattatcat gtcagacacc ttacgccaca gcaacaagt ttatgtctt taaggaaag aatcaatct gcaagaatgt gaaagtgtgc aagcagtgta aactgcaact agtggatga atgtgttatt acctaggtaa ctgcataat atagggaalg tattttgta agaaagcttt tgtgaatc agaatttt tttaatat atttttcca tggaaagagt gtcactaca aaacttcat actgagagta acatgactca gtagccacag aagctatgat ttgtaaaata tataatgaa tcaagagtaat cataatgagc gggagagacatt caaattagag acaaggggaga agcaatgctg aggaagaccoc tagatagagc tcatttact ccacttaac gttatattc gataatocca ttitctgcat cttttctc aacataaac tgtctgtct ttggagact ttgaacatt octaagcac aaataaagc ctcgtatc cccattgaga gttttctc aaggatata gagtgaagaca tatgggtgag tcatataat caaataat tatgaagagc tgggtctgca atagctagtc taaaactac ttgtgtgca gtctctgtg tatatataat aagagcttgg ggaagcttgg caagtatagat ggtgtattat ttatggatca ggtctgctga tacaacact gcatattat atgcagctta octaactc agctatct ggtatagct tgcgtctaa tgaatgata gggagaccaca ttgtaattgt tctatagat tggagttcat gcaagttctt agaaatcgt ctacgtgcat gctgtgcttt ttacattg ctctgggta tctgggaagt atcaggtct gggagggcac agcaltaaat gataagaaa ggaagacalc tggcaagcc aatctgctta aaggcaagt ccaagaactg gaaactagag gctttctt ctgcacgaaa aacagggtagt ttgcagctg agatattggga ggtctttag gctacacagc aaoccaaagg acctcacc ttitgtcag ctcaatcag gaagctatt gcttgctcc agcagatgat gataataga ggtatgggt ttittatc ttgtocatt tgcacatoc tgcacaoca tcttgggaga caagagc accagctg gctttacgg gggaggtg tattcagt</p> <p>MDFESGQVDP LASVILPPNL LENLSPEDSV LVRRAQFTFF NKTGLFQDVG PQRKTLVSYV MACSIGNITI QNLKDPVQIK IKHTRTQEVH HPICAFWDLN KNKSFGGWNT SGCVAHRDSD ASETVCLCNH FTHFGVLM DL PRSASQLDAR NTKVLTFISY IGCGLSAIFS AATLLTYVAF EKLRDYP SK ILMNLSTALL FLNLLFLLDG WITSFNV DGL CIAVAVLLHF FLAFTWVG LEAHMYIAL VKVFNTYIR YILKFCI GW GLPALVSVV LASRNNNEVY GKESYGKEG DEFCWQDPV IFYVTCAGYF GVMFFLNIA M FIVVMVQICG RNGKRSNRTL REEVLRNLRS VVSLTFLLGM TWGFAFFAWG PLNIPFMYLF SIFNSLQGLF IFIFHCAMKE NVQKQWRRHL CCGRFR LADN SDWSKTATNI IKKSSDNLGK SLSSSSIGSN STYLT SKSKS SSTTYFKRNS HTD NVSYEHS FNKSGSLRQC FHQVL VKTG PC caccattagg caaagatgt ttcttagag agaatcagc ctgtaata caggttacc aggcagatg gagacaatc agatttga tacttatt atgcagtgac atacactg attttgtc caggttcat agggaaata ttgacctgt gggatttca tgggtatag aagaagaaca aacggagctgt gatatitag ataaactag ccattgtga ctactaca gtttcttct tggcactgag gactttac tactgaatc atgactggoc atttggoc tggctctgca tgtctgtt ctactgaag tatgtcaaca tgtatgcaag calctactt ttgtctgca tcaagtgtgg acgatttgg ttctcatgt accotttgc ctctatgac tgcacaaga aatatgacct gtacatcagc attgtctggt ggtctgcat ctgcttggc tgtgtactt ttccactct cagaaccagt gatgatact ctggcaatag gaccaaalgc ttgtggatc ttctaccag gnatgtcaac ctggccocagt ccgtgttat gatgacatt ggcgagtga ttgggttgt</p>	P	Homo sapiens
572	190026	G Protein-Coupled Receptor JEG18	NM_032553	<p>gcttgggtatt ttgagatcat gttttttctg aacattgccca tgttcatgtt ggtatagtggt cagatcttgtg gggaggaaatgg caagaagaagc aaccggaccoc tgaagaagaaga agtggtaagg aaccttgcca gttgtgttag ctgaccttt cgtttgggca tgcattggggg ttttgcatc ttgctctggg gaaccttaaa latcccttc atgtacctt tctccattt caattcatta caaggcttat ttatattcat cttccactgt gctatgaagg agaatgttca gaaacagtgg cggcgccatc tctgtctgg tagatttcgg tttagcagata actcagattg ggtatagaca gctaccaata tcatcaagaa aagtcttgat aattcttgat aatcttgct ttaagctcc atttggtcca actcaacctt tctatcatoc aaatctaaat ccagctctac cacttattc aaagggaata gcaacacaga taalgctctoc tatgagcatt ccttcaacaa aagtggatca ctacagacagt gcttccatgg acaagtcctt gccaacatgg gccaatctg atggagatca aacatcaatc atccctgtcc atcagggtcc tgaataggc aagggttatt gcaatgctca ttgagacaac ttctataaa atattatcat gtcagacacc ttacgccaca gcaacaagt ttatgtctt taaggaaag aatcaatct gcaagaatgt gaaagtgtgc aagcagtgta aactgcaact agtggatga atgtgttatt acctaggtaa ctgcataat atagggaalg tattttgta agaaagcttt tgtgaatc agaatttt tttaatat atttttcca tggaaagagt gtcactaca aaacttcat actgagagta acatgactca gtagccacag aagctatgat ttgtaaaata tataatgaa tcaagagtaat cataatgagc gggagagacatt caaattagag acaaggggaga agcaatgctg aggaagaccoc tagatagagc tcatttact ccacttaac gttatattc gataatocca ttitctgcat cttttctc aacataaac tgtctgtct ttggagact ttgaacatt octaagcac aaataaagc ctcgtatc cccattgaga gttttctc aaggatata gagtgaagaca tatgggtgag tcatataat caaataat tatgaagagc tgggtctgca atagctagtc taaaactac ttgtgtgca gtctctgtg tatatataat aagagcttgg ggaagcttgg caagtatagat ggtgtattat ttatggatca ggtctgctga tacaacact gcatattat atgcagctta octaactc agctatct ggtatagct tgcgtctaa tgaatgata gggagaccaca ttgtaattgt tctatagat tggagttcat gcaagttctt agaaatcgt ctacgtgcat gctgtgcttt ttacattg ctctgggta tctgggaagt atcaggtct gggagggcac agcaltaaat gataagaaa ggaagacalc tggcaagcc aatctgctta aaggcaagt ccaagaactg gaaactagag gctttctt ctgcacgaaa aacagggtagt ttgcagctg agatattggga ggtctttag gctacacagc aaoccaaagg acctcacc ttitgtcag ctcaatcag gaagctatt gcttgctcc agcagatgat gataataga ggtatgggt ttittatc ttgtocatt tgcacatoc tgcacaoca tcttgggaga caagagc accagctg gctttacgg gggaggtg tattcagt</p> <p>MDFESGQVDP LASVILPPNL LENLSPEDSV LVRRAQFTFF NKTGLFQDVG PQRKTLVSYV MACSIGNITI QNLKDPVQIK IKHTRTQEVH HPICAFWDLN KNKSFGGWNT SGCVAHRDSD ASETVCLCNH FTHFGVLM DL PRSASQLDAR NTKVLTFISY IGCGLSAIFS AATLLTYVAF EKLRDYP SK ILMNLSTALL FLNLLFLLDG WITSFNV DGL CIAVAVLLHF FLAFTWVG LEAHMYIAL VKVFNTYIR YILKFCI GW GLPALVSVV LASRNNNEVY GKESYGKEG DEFCWQDPV IFYVTCAGYF GVMFFLNIA M FIVVMVQICG RNGKRSNRTL REEVLRNLRS VVSLTFLLGM TWGFAFFAWG PLNIPFMYLF SIFNSLQGLF IFIFHCAMKE NVQKQWRRHL CCGRFR LADN SDWSKTATNI IKKSSDNLGK SLSSSSIGSN STYLT SKSKS SSTTYFKRNS HTD NVSYEHS FNKSGSLRQC FHQVL VKTG PC caccattagg caaagatgt ttcttagag agaatcagc ctgtaata caggttacc aggcagatg gagacaatc agatttga tacttatt atgcagtgac atacactg attttgtc caggttcat agggaaata ttgacctgt gggatttca tgggtatag aagaagaaca aacggagctgt gatatitag ataaactag ccattgtga ctactaca gtttcttct tggcactgag gactttac tactgaatc atgactggoc atttggoc tggctctgca tgtctgtt ctactgaag tatgtcaaca tgtatgcaag calctactt ttgtctgca tcaagtgtgg acgatttgg ttctcatgt accotttgc ctctatgac tgcacaaga aatatgacct gtacatcagc attgtctggt ggtctgcat ctgcttggc tgtgtactt ttccactct cagaaccagt gatgatact ctggcaatag gaccaaalgc ttgtggatc ttctaccag gnatgtcaac ctggccocagt ccgtgttat gatgacatt ggcgagtga ttgggttgt</p>	A	Homo sapiens

573	190026	G Protein- Coupled Receptor JEG18	NP_115942.1	P	Homo sapiens
574	190031	G Protein- Coupled Receptor VLGR1	AF055084	A	Homo sapiens

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 atgtcatgt agtaattt ctcaagt

MPANYTCTRP DGDNTDFRYF IYAVTYTVIL VPGLIGNILA LWVFGYMKKE
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 NMYASIFYLV CISVRRFWFL MYPFRFDCK QKYDLYISIA GWLIICLACV
 LFPLRTSDD TSGNRTKCFV DLPTNRVNLA QSVVMMTIGE LIGFVTPLLI
 VLYCTWKTVL SLQDKYPMAQ DLGEKQKALK MILTCAGVFL ICFAPYHFSF
 PLDFLVKSNE IKSLARRVI LFHSVALCL ASLNSCLDPV IYFSTNEFR RRLSRQDLHD
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[illegible]

575	190031	G Protein- Coupled Receptor VLGR1	AAD55586.1	ggaggactac aatggccta cagacacttc tggatgtgg tctcttggg cactttcag agcttcagc gactttatgt ttatgggt tatttcatt tacacaacca aatgtgtgc cctatgaagg ccagttaac tgggaaatg aatgggcaic cttggaccag cacagccctt ttcacgccg ggaatgggaat gcctctgcti ggaggggaaa tgcagagc caccagaat ctaicgggig ctalggagga ggcgccact gactggaga gagcatocct ccaacagggc agtcaggcca gcoctgatt aaagccaagt ccacaaatg ggaccacgtt cccgtctcti ggaggatag gccaggggic actgatagcc gatgagagt cccagaggti tgaatgata atattgcat taataactgg tgcgtctc agtgcagtg ataatgaic tggcagggc agccagggagg ggagccactt gactgactcc cagatcggg agctcaggag gataccatc gccgacatc acccttgatg cctcactaac caticgacig agcacactt catattgta tccgttttg tctaaact cctaatgac atccactgt gtaataggaa cctgtgaat gtaactg attaataca acgtgtatgt tgaattgga gataaatta ctgattgta gtaactgaa aattcactgc tataagaag gtaggagcag ttigtatcag ttaataggat gtaactatc caaggatatt agttgtttt ttaatcatcc tataatgcta acattgta atgaagtaa taataataa agcaatagaa tct	P	Homo sapiens
				MQLCFCFCCC ILFYFDLYDF GRGYDFTIQE NGLQIDQPPE IGNISIVRII IMKNDNAEGI IEFDPKXYTAF EVEEDVGLIM IPVVRLHGTY GYVTADFISQ SSSASPGGVD YILHGSTVTF QHQGNLSFIN ISIDDNESE FEEPIELLT GATGGAVLGR HL VSRILIAK SDSPFGVIRF LNQKISIAN PNSTMILSLV LERTGGLLGE IQVNWETVGP NSQEALLPON RDIADPVSL FYFGEGEGGV RTILITYPH EEIEVEETFI IKLHL VKGEA KLDSRAKDVLT LTIQFQDPN GVVOFAPETL SKKTYSEPLA LEGPLLIJTF VRRVKGTGE IMVYWELSE FDIETEDFLST SGFTIADGE SEASFDVHLL PDEVPEIEED YVIQVSVGE GAELDLEKSI TWFSVYANDD PHGVFALYSD RQSLIGQNL IRSIQNITR LAGTFGDVAV GLRISSDHKE QPIVTENAER QL VVKDGATY KVDVVPKQ VFLSLGSNFT LQLVTVMV VG GRFYGMPTIL QEAASVLPV SEKAANSQV FESTAFQLMN ITAGTSHVMI SRRGTYGALS VAWTTGYAPG LEIPEFIVVG NMTPTLGLSL FSHGEQRKGV FLWTFPSGW PEAFVLHLSG VQSSAPGGAQ LRSGFIVAEI EPMGVFQST SSRNIVSED TQMIRLHVQR LFGHSDLIK VSYQTTAGSA KPLEDFEPVQ NGELFFQKFQ TEVDFEITI NDQLSEIEEF FYINLTSEI RGLQKFDVNW SPRLNDFS AVITILDND LAGMDISFPE TTVAVAVDTT LPVETESIT YLSTSKTTTI LQPTNVVAIV TEATGVSAIP EKL VTLHGTP AVSEKPDVAT VTANVSIHGT FSLGPSIVYI EEMKNGITFN TAEVLIRRTG GFTGNVSITV KTFGERCAQM EPNALPFRGI YGISNLTWAV EEEDFEEQIL TLIFLDGERE RKVSVQILDD DEPEGQEFFY VFLTNPQGA QIVEGKDDTG FAAFAMVIT GSDLHNGIIG FSEESQSGLE LREGAVMRRL HLIVTRQPNR AFEDVKVFWR VTLNKTVVVL QKDGVNLMEE LQSVSGTTTC TMGQTKCFIS IELKEKVPQ VE VYFFVELY EATAGAAINN SARFAQIKIL ESDSQSLVY FSVGSR LAVA HKKATLISLQ VARDSGTGLM MSVNFSTQEL RSAETIGRTI ISPAISGKDF VITEGILVFE PGQRSTVLDV ILTPETGSLN SFPKRFQIVL FDPKGGARD KUYGTANITL VSDADSAIW GLADQLHQPV NDDILNRVLH TISMKVATEN TDEQLSAMMH LIEKITTEGK IQAFVARSRT LFYEILCSLI NPKRKDTRGF SHFAEVTEFN AFSLLTNVT GSPGEKSKI LDSCPYLSIL ALHWYPOQIN GHKFEKGD YIRPERLLD VQDAEIMAGK STCKLVQFTE YSSQWFFISG NNLPTLKNKV LSLSVKGQSS QLLTNDNEVL YRIYAAEPRI IPQTSCLLW NQAAAASWLS SQFCKVIEET		

576	190168	G Protein-Coupled Receptor GPR58	NM_014626	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLA VLSHIF CARYSMFAAK LLTHMMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQ MSQIYGLIHG DLCHFNPVYA ALFTAALVPL TCLVWVFEVVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMAJR HFWMVLV FVI FNSLQGLYVF MVIYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGGYQGSL IADESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL algiaticat ttatggcagg atccataic alcaaatat ttggcaatct tgcctatga attccatt cctactcaa gcagctcac acacaaaca actccatc cctccatg gccatcacg attccctct gggtaccac atcagccat atagatgat cagatcggtg ggagaactgct ggatttgg gctacatt tgaagatt atatagtt tgaactgaig cttagcaiaa catccattt tcatcttgc tcaglggcca tigtatgatt ttalgctata tgtacccat tacttatic caccaaaata actattccag tcaataaag attgctact ctatgtgt cgtccctgg agcatitgcc ttccggcgg ttcttcaga ggccatgca gatggaatag agggctatga catcttgggt gctgttoca gtccctggcc agtgaigt acaagctat gggggaccac ctgtttatg gcaggtttct tccctcgg gtctatgag gtggggattt agggcaaaal ttggcagta tccagaaac atgctcagc calcaataac ttgcgagaa alcaaatata tcaagtgaag aaagacaaaa aagctgcca aactttagga atagtatag gattttcti attatgttgg ttcccttgt tcttcaaat tttatggat cccctttga acttctac tctttagt ttgtttag ctgtgacgt gtttggtat ttiaactoca calgtaatcc gtaatatat ggtttctct atccctgt ttgcagagca ctgaagtaca ttgtcagg taaaatttc agctcaigt tccalaatc tatgtgt atgcacaaaag aaagtga g MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLISM AITDFLLGFT IMPYSMIRSV P Homo sapiens ENCWYFGLTF CKIYVSFDM LSITSIFHL SVAIDRFYAI CYPLLYSTKI TPVIKRLLL LCWSVPGAFA FGAVFSEAYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTPGSGMM VGIYKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTLG IVIGVFLLCW FPCFFTLDD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFERRA LKYILLGKIF SSCFHNTILC MQKESE alggatctaa ctlatatcc cgaagacctt tccagtgtc caaaattgt aaalaaatc ctgtccctcc accaacogct ctttcatgt ccaggtgata atgtattccg ttatgactgg agccatgatt atccactatt cggaaacttg gtataatgg ttccatcgc gcatcca cagcttcatc ccccaaaa ctctcagc ctccatgg caaccacgga cttctcgtt gggttgcga ttatgcata cagcataaig cgatcagigg agagtgtctg gtacttggg gatggcttu gtaaatcca cacaagcti gacatgagc tcaactgac ctccatttc caccttgtt ccatgtctat tgaocgatt tatgcctgt gtaacocctt acattacaca accaaaatga cgaactccac cataaagcaa ctgtcggcat ttgtcgttc agttcctgt cttttct ttgtttagt tctatctag gccaggttt ccggtatga gagctataag alactgttg ctgtctcaa ttctgtcc ctacttca acaatticg ggggacaaia ttgtcacta calgtttct taccctcggc tccatcaggg ttgtattta tggcaaatc ttatcgtt ocaaacagca tgcctcagc atcagccatg tgcctgaaaa cacaaagggg gcagtgaaaa aacactatc caagaaaaag gacaggaaag cagcgaagac actgggata gtaagtgggg tgttctggc ttgtcgggt cctgtttc ttgttgtct gatgaoca taactagat actccatcc calactata ttggatctt tagtfggt ccgtacttc aacttact gcaacocct tactatggc ttittatc calgtttca gaaagcatic aagtacatag tgcagggaa aatattagc tccatcag aaactgcaa ttgttct gaagcacat aa MDLTYIPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P Homo sapiens VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG
577	190168	G Protein-Coupled Receptor GPR58	NP_055441.1	MYSFMAAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLISM AITDFLLGFT IMPYSMIRSV P Homo sapiens ENCWYFGLTF CKIYVSFDM LSITSIFHL SVAIDRFYAI CYPLLYSTKI TPVIKRLLL LCWSVPGAFA FGAVFSEAYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTPGSGMM VGIYKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTLG IVIGVFLLCW FPCFFTLDD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFERRA LKYILLGKIF SSCFHNTILC MQKESE alggatctaa ctlatatcc cgaagacctt tccagtgtc caaaattgt aaalaaatc ctgtccctcc accaacogct ctttcatgt ccaggtgata atgtattccg ttatgactgg agccatgatt atccactatt cggaaacttg gtataatgg ttccatcgc gcatcca cagcttcatc ccccaaaa ctctcagc ctccatgg caaccacgga cttctcgtt gggttgcga ttatgcata cagcataaig cgatcagigg agagtgtctg gtacttggg gatggcttu gtaaatcca cacaagcti gacatgagc tcaactgac ctccatttc caccttgtt ccatgtctat tgaocgatt tatgcctgt gtaacocctt acattacaca accaaaatga cgaactccac cataaagcaa ctgtcggcat ttgtcgttc agttcctgt cttttct ttgtttagt tctatctag gccaggttt ccggtatga gagctataag alactgttg ctgtctcaa ttctgtcc ctacttca acaatticg ggggacaaia ttgtcacta calgtttct taccctcggc tccatcaggg ttgtattta tggcaaatc ttatcgtt ocaaacagca tgcctcagc atcagccatg tgcctgaaaa cacaaagggg gcagtgaaaa aacactatc caagaaaaag gacaggaaag cagcgaagac actgggata gtaagtgggg tgttctggc ttgtcgggt cctgtttc ttgttgtct gatgaoca taactagat actccatcc calactata ttggatctt tagtfggt ccgtacttc aacttact gcaacocct tactatggc ttittatc calgtttca gaaagcatic aagtacatag tgcagggaa aatattagc tccatcag aaactgcaa ttgttct gaagcacat aa MDLTYIPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P Homo sapiens VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG
578	190170	G Protein-Coupled Receptor GPR57	NM_014627	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLA VLSHIF CARYSMFAAK LLTHMMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQ MSQIYGLIHG DLCHFNPVYA ALFTAALVPL TCLVWVFEVVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMAJR HFWMVLV FVI FNSLQGLYVF MVIYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGGYQGSL IADESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL algiaticat ttatggcagg atccataic alcaaatat ttggcaatct tgcctatga attccatt cctactcaa gcagctcac acacaaaca actccatc cctccatg gccatcacg attccctct gggtaccac atcagccat atagatgat cagatcggtg ggagaactgct ggatttgg gctacatt tgaagatt atatagtt tgaactgaig cttagcaiaa catccattt tcatcttgc tcaglggcca tigtatgatt ttalgctata tgtacccat tacttatic caccaaaata actattccag tcaataaag attgctact ctatgtgt cgtccctgg agcatitgcc ttccggcgg ttcttcaga ggccatgca gatggaatag agggctatga catcttgggt gctgttoca gtccctggcc agtgaigt acaagctat gggggaccac ctgtttatg gcaggtttct tccctcgg gtctatgag gtggggattt agggcaaaal ttggcagta tccagaaac atgctcagc calcaataac ttgcgagaa alcaaatata tcaagtgaag aaagacaaaa aagctgcca aactttagga atagtatag gattttcti attatgttgg ttcccttgt tcttcaaat tttatggat cccctttga acttctac tctttagt ttgtttag ctgtgacgt gtttggtat ttiaactoca calgtaatcc gtaatatat ggtttctct atccctgt ttgcagagca ctgaagtaca ttgtcagg taaaatttc agctcaigt tccalaatc tatgtgt atgcacaaaag aaagtga g MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLISM AITDFLLGFT IMPYSMIRSV P Homo sapiens ENCWYFGLTF CKIYVSFDM LSITSIFHL SVAIDRFYAI CYPLLYSTKI TPVIKRLLL LCWSVPGAFA FGAVFSEAYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTPGSGMM VGIYKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTLG IVIGVFLLCW FPCFFTLDD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFERRA LKYILLGKIF SSCFHNTILC MQKESE alggatctaa ctlatatcc cgaagacctt tccagtgtc caaaattgt aaalaaatc ctgtccctcc accaacogct ctttcatgt ccaggtgata atgtattccg ttatgactgg agccatgatt atccactatt cggaaacttg gtataatgg ttccatcgc gcatcca cagcttcatc ccccaaaa ctctcagc ctccatgg caaccacgga cttctcgtt gggttgcga ttatgcata cagcataaig cgatcagigg agagtgtctg gtacttggg gatggcttu gtaaatcca cacaagcti gacatgagc tcaactgac ctccatttc caccttgtt ccatgtctat tgaocgatt tatgcctgt gtaacocctt acattacaca accaaaatga cgaactccac cataaagcaa ctgtcggcat ttgtcgttc agttcctgt cttttct ttgtttagt tctatctag gccaggttt ccggtatga gagctataag alactgttg ctgtctcaa ttctgtcc ctacttca acaatticg ggggacaaia ttgtcacta calgtttct taccctcggc tccatcaggg ttgtattta tggcaaatc ttatcgtt ocaaacagca tgcctcagc atcagccatg tgcctgaaaa cacaaagggg gcagtgaaaa aacactatc caagaaaaag gacaggaaag cagcgaagac actgggata gtaagtgggg tgttctggc ttgtcgggt cctgtttc ttgttgtct gatgaoca taactagat actccatcc calactata ttggatctt tagtfggt ccgtacttc aacttact gcaacocct tactatggc ttittatc calgtttca gaaagcatic aagtacatag tgcagggaa aatattagc tccatcag aaactgcaa ttgttct gaagcacat aa MDLTYIPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P Homo sapiens VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG
579	190170	G Protein-Coupled Receptor	NP_055442.1	ADYVEACSH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLA VLSHIF CARYSMFAAK LLTHMMAASL GTQILFLASA YASPOLAEES CSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFFLLSWG LPAFVVILLI VILKGIYHQ MSQIYGLIHG DLCHFNPVYA ALFTAALVPL TCLVWVFEVVF IHAYQVKPQW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMAJR HFWMVLV FVI FNSLQGLYVF MVIYFILHNQM CCPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGGYQGSL IADESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGTLT DSQIVELRRI PIADTHL algiaticat ttatggcagg atccataic alcaaatat ttggcaatct tgcctatga attccatt cctactcaa gcagctcac acacaaaca actccatc cctccatg gccatcacg attccctct gggtaccac atcagccat atagatgat cagatcggtg ggagaactgct ggatttgg gctacatt tgaagatt atatagtt tgaactgaig cttagcaiaa catccattt tcatcttgc tcaglggcca tigtatgatt ttalgctata tgtacccat tacttatic caccaaaata actattccag tcaataaag attgctact ctatgtgt cgtccctgg agcatitgcc ttccggcgg ttcttcaga ggccatgca gatggaatag agggctatga catcttgggt gctgttoca gtccctggcc agtgaigt acaagctat gggggaccac ctgtttatg gcaggtttct tccctcgg gtctatgag gtggggattt agggcaaaal ttggcagta tccagaaac atgctcagc calcaataac ttgcgagaa alcaaatata tcaagtgaag aaagacaaaa aagctgcca aactttagga atagtatag gattttcti attatgttgg ttcccttgt tcttcaaat tttatggat cccctttga acttctac tctttagt ttgtttag ctgtgacgt gtttggtat ttiaactoca calgtaatcc gtaatatat ggtttctct atccctgt ttgcagagca ctgaagtaca ttgtcagg taaaatttc agctcaigt tccalaatc tatgtgt atgcacaaaag aaagtga g MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLISM AITDFLLGFT IMPYSMIRSV P Homo sapiens ENCWYFGLTF CKIYVSFDM LSITSIFHL SVAIDRFYAI CYPLLYSTKI TPVIKRLLL LCWSVPGAFA FGAVFSEAYA DGIEGYDILV ACSSSCPVMF NKLWGTTLFM AGFFTPGSGMM VGIYKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTLG IVIGVFLLCW FPCFFTLDD PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFERRA LKYILLGKIF SSCFHNTILC MQKESE alggatctaa ctlatatcc cgaagacctt tccagtgtc caaaattgt aaalaaatc ctgtccctcc accaacogct ctttcatgt ccaggtgata atgtattccg ttatgactgg agccatgatt atccactatt cggaaacttg gtataatgg ttccatcgc gcatcca cagcttcatc ccccaaaa ctctcagc ctccatgg caaccacgga cttctcgtt gggttgcga ttatgcata cagcataaig cgatcagigg agagtgtctg gtacttggg gatggcttu gtaaatcca cacaagcti gacatgagc tcaactgac ctccatttc caccttgtt ccatgtctat tgaocgatt tatgcctgt gtaacocctt acattacaca accaaaatga cgaactccac cataaagcaa ctgtcggcat ttgtcgttc agttcctgt cttttct ttgtttagt tctatctag gccaggttt ccggtatga gagctataag alactgttg ctgtctcaa ttctgtcc ctacttca acaatticg ggggacaaia ttgtcacta calgtttct taccctcggc tccatcaggg ttgtattta tggcaaatc ttatcgtt ocaaacagca tgcctcagc atcagccatg tgcctgaaaa cacaaagggg gcagtgaaaa aacactatc caagaaaaag gacaggaaag cagcgaagac actgggata gtaagtgggg tgttctggc ttgtcgggt cctgtttc ttgttgtct gatgaoca taactagat actccatcc calactata ttggatctt tagtfggt ccgtacttc aacttact gcaacocct tactatggc ttittatc calgtttca gaaagcatic aagtacatag tgcagggaa aatattagc tccatcag aaactgcaa ttgttct gaagcacat aa MDLTYIPEDL SSCPKFVNKI LSSHQPLFSC PGDNVFGYDW SHDYPLFGNL P Homo sapiens VIMVSISHFK QLHSPNTNFI LSMATTDFLL GFVIMPYSIM RSVESCWYFG

A Homo sapiens

DGFCCKFHTSF DMMLRLTSLF HLCSIADIRF YAVCYPLHYT TKMTNSTIKQ
LLAFQWSVPA LFSFGLVLSE ADVSGMQSYK ILVACNFCA LTFNKFVGTT
LFTTTCFFTP SIMVGIVGKI FIVSKQHARV ISHPVENTIK AVKHLKSKK
DRKAAKTLGI VMGVFLACWL PCFLAVLIDP YLDYSTPILJLDLLVWLRYF
NSTCNPLIHG FFNPWFQKAF KYIVSGKIFS SHSETANLFP EAH

581	190188	G Protein-Coupled Receptor LGR6	AAG17168.1	<p>ttctctttcc tctctccccc tctgttgatg atggctgctt ctataacaaa tacaacaaa actcagcagt gtgatctata gcaaggatggc ccagtaacctg gctccactga tcaactctct cctgtgacca taccacagg gttcccttgg gcccttgctt cctctggcct tctcagctt caccitgata ctgggctct tctgtgcat gcttgaaagt gttgaccaga gacttggaat ttgtctgt taagggaal gagggaaaga aagacagta aggggtggag gggtgatca</p> <p>MRLEGEGRSA RAGQNLNRAG SARRGAPRDL SMNNLTELQP GLFHHLRFLE ELRLSGNHLS HPGQAFSG L YSLKILMLQN NQLGGIPAEA L WELPSLQSL DLNYNKLQEF PVAIRTLGRL QELGFHNNNI KAIPKAFMG NPLLQTIHFY DNPIQFVGRS AFQYLPKLHT LSLNGAMDIQ EFPDLKGTTT LEILTLAG</p> <p>IRLLPSGMCQ QLPRLRVLEL SHNQIEELPS LHRCQKLEI GLQHNRIWEI GADTFSQLSS LQALDLSWNA IRSIHPEAFS TLHSLVKLDL TDNQLTTLPL AGLGLMHLK LKGNLALSQA FSKDSFPKLR ILEVPIYQC CPYGMCSFF KASGQWEAED LHLDEESSK RPLGLLARQA ENHYDQDLDE LQLEMEDSKP HPSVQCSPTP GPFKPCYLF ESWGIRLAVW AIVLLSVLCN GLVLLTVFAG GPVPLPPVKF VVGAAGANT LTIGSCGLLA SVDALTFGQF SEYGARWETG LGCRATGFLA VLGSEASVLL LTLAAVQCSV SVSCVRA YGK SPSLGSVRAG VLGCLALAGL AAALPLASVG EYGASPLCLP YAPPEGQPAAL LGFTVAL VMM NSFCFLVAG AYIKLYCDLP RGDFAVWDC AMVRHVAWLI FADGLLYCPV AFLSFASMLG LFPVTPEAVK SVLLVVLPLP ACLNPLLYLL FNPFRDDDLR RLRPRAGDSG PLAYAAAGEL EKSSCDSTQA L VAFSDVDLI LEASEAGRPP GLETYGFPSV TLSCQQPGA PRLEGSHCPE PEGNHFGNPQ PSMDGELLR AEGSTPAGGG LSGGGGFQPS GLALLHTY</p>	P	Homo sapiens
582	190414	G Protein-coupled Receptor GPR101	AF411115	<p>atgacgtcca cctgaccaca cagcagcgc gagagtaaca gacagcacac gttgattccc ctctccaaa tgcocatcag cctggccac ggcatacc gctcaacct gctgtttatc ttctcggc ccttttgt cggcaacata gtgtctgggc tagtttga ggcgaagccg cagctctgc aggttgaccaa ccgtttatc tttaacctc tggtaacaga cctgtgtcag atttctcg tggccccc gttgttgcc acctctgc ctctctgc gcccctaac agccactct gcaaggccct gtttagctc accaactgt tggcttgc cagcgtcac accattgtc tgggtcagt tggatcgtac ttttccatca tccacctct cttctaccg tccaagatga cccagcgcgc cgtttacctg ctctctatg gcaacctggat ttttggccatc ctgcaagaga cttctccact ctacggctgg ggcagagctg ctttgatga g-cgcaatgt ctgtgtcca tgaatgggg ggcagcccc agtaacata ttctagctt gttgtcttc atgtcatic cacttgatgt catgatggc tttactccg tttgtttctg tgcagcccc aggtcagcag ctctctga caattcag agacacagt tggaaatggc agtaagagac tttgttgatga atgagatga agagagagca agagatcca agatitccc gccaagatga aggttgaggtc aaggtccaaag agggcaaat ggaagocaa gacggcagcc tgaagggocaa ggaaggaagc acgggggacca gttgaagtag tttgaagggc aggggagcag aggaagcagc acgttggtcca g-cgacggcag catggaggtt aaggaagga gcaaccaagt tgaaggaac agcatgaag gacacaggg tgcacagag gtaaccaat gcaacatga ctgggtgaa gattacatgg agttttgga agacgacalc aattcaggt aggaagctt cgaagcagtt aaatcccc agagcccc accaagctgt cgttaacaga acagcaacc tctctgccc aggtgttacc aggttgaagc tcttaaggt atcttca tcatitct ctatgtcta tccctggggc cttactgt tttagagc ctggccgtgt ggggtgagtt cgaacacca gtaoccat ggggtgatcac cataatc tggctttct tctgcagtt ctgcatcac cctatgtct atgtgtacat gcaacagacc attaagaaag aaatccagga catgtgaag aagtctctt gcaaggaaaa gccccgaaa gaagatagcc accaagacct gcccggaa gagggtggga ctgaaggcaaa gattgtcc tctacgatt ctgtacttt tcttga</p>	A	Homo sapiens

583	190414	G Protein-coupled Receptor GPR101	CAC33098.1	<p>MTSTCTNSTR ENSSHTCMP LSKMPISLAH GIRSTVLVI FLAASFVGNV VLALVLQRKP P QLLQVTNRFI FNLLVTDLLQ ISLVAPWVVA TSVPLFWPLN SHFCTALVSL THLFAFASVN TIVLVSDRY LSIHPLSY SKMTQRRGYL LLYGTWIVAI LQSTPPLYGW QAAAFDERNA LCSMIWGASP SYTILSVVSF IVPLIVMIA CYSVVFCAAR RQHALLYNVK RLSLEVRVKD CVENEDEEGA EKKEEFQDES EFRRQHEGEV KAKEGRMEAK DGSILKAKEGS TGTSESSVEA RGSEEVRESS TVASDGSMEG KEGSTKVEEN SMKADKGRTE VNQCSIDLGE DGMEFGEDDI NFSEDDVEAV NIPESLPPSR RNSNSNPPLP RCYQCKAAKV IFIIFSYVL SLGPYCF LAV LAVVVDVETQ VPQWVITIII WLFLLQCCIH PYVYGVMHKT IKKEIQDMLK KFFCKEKP PK EDSDHPDLP GT EGGTEGKIVP SYDSATFP</p>	Homo sapiens
584	190418	Inflammation- Related G Protein-Coupled Receptor EX33	NM_020370	<p>taactgtcca ccagaaagga ctgctcttg ggtgagttga actcttcca ttatagaag aattigaagg tgagaaactc agcctctalc A atgtggaaaca gctctgacgc caactctcc tgcctaccatg agctgtgctt gggctatcgt tatgtgtcag tagcttgggg ggtgtgtgtg gctgtgacag gcacgtgggg caatgtgtc accctactgg ccttggccal ccagccaag ctccgtacc gattcaacct gctcatagcc aactcaac tggctgact cctctactgc agctctctc agcctctc tgttgacacc taactccacc tgcactggcg caocgtggcc acccttcca gggatattgg gctctcctt ttgcttcca atctgtctc calcttgacc ctctgcctca tgcacatggg acgtactc ctatggcc accctaaagt tttcccaa gtttcagtg ccaaggggat agtgcaggca ctgtgtgagca cctgggtgtt gggcgtggcc agcttggctc cctctggcc tatttalc ctgtgtaccg tagtctgac ctgcagctt gaccgcalcc gagccggcc ttacacc accctcatgg gcatctact tgtgtgtgg ctacagcag tttggcaict ctattgctc atccaccgcc aggtcaaacg agcagcacag gcacttggacc aatacagt gcagacagga agcatccact ccaacatgt ggccaggact gatgaggcca tgcctgtgtg ttccaggag ctggagaca ggttagcalt tggagagacc agtgaaggga tttcatctga gccagtcagt gctgtccacca ccagacacct ggaaaggggac tcatcagaa tggagagaca gatcaacagc aaagagagcta agcagatggc agagaaaaag cctccagaag catctgcaa agccagcca attaaaggag ccagaagagc tcgggattct tcatgggaat ttgggaaggt gactgaatg tgttctctg tgtctctg ctttgcctg agctacatcc cctctgct gctcaacat ctggatgcca gagtccaggc tcccgggtg gtccacatg ttgtgtccaa cctcacctgg ctcaatggt gcatcaacc tgtctctat gccagcatga accgccaalt ccgccaagca tatggctcca tttaaaag agggcccg agttccalta ggctccatta gaactgtgac ctatgtacc agaatcagg actgtctct ccagggaocaa agtggccagg taataggaga atagtgtgaaa taacacatgt gggcatttc acaaatct cttccagcc tcccaatca agtcttcca tcaactgalt aatgttcag ccttagactg ccaaggagt attataat attataat gaattctgt ctttaaaa aaaaaaata aaaaaagaa aaaaa</p>	Homo sapiens
585	190418	Inflammation- Related G Protein-Coupled Receptor EX33	NP_065103.1	<p>MWNSSDANFS CYHESVLGYR YVAVSWGTVV AVTGTVGNVL TLLALAIQPK P LRTRFNLLIA NLTLADLLYC TLLQPFSDVT YLHLHWRGTGA TFCRVFGLLL FASNSVSLT LCIALGRYL LIAHPKLPQ VFSAKGWILA LVSTWVVGVA SFAPLWPIYI LVPVVTCSF DRIRGRPYT ILMGIYFVLG LSSVGIFYCL IHRQVKRAAQ ALDQYKLRQA SIHNSHVART DEAMPGRFQE LDSRLASGPP SEGISEPVS AATTQTLEGD SSEVGDQINS KRAQMAEKS PPEASAKAQP IKGARRAPDS SSEFGKVTRM CFAVFLCFAL SYTFLLNLI LDARVQAPRV VHMLAANLTW LNGCINPVLY AAMNRQFRQA YGSILKRGPR SFHRLH</p>	Homo sapiens
586	190419	G Protein- Coupled Receptor Ls190419	AJ303165	<p>ctttgtcca gactaaacc agttttct cttccacag caaataict gacagatc atctctccc agctgtgtggc aagaagacag A aagctcctc acaataict ctggcacic gctgtgtccg acatctgt cctctttt atagtgtt tggactctt gtttgagat ttcatctga acatgcat gctcaggic cccgacaga tcatagaagt gcttgaatc tcatccatc acactccat atggattact</p>	Homo sapiens

587	190419	G Protein- Coupled Receptor Ls190419	CAC33085.1	LCFRKPVFL LSTANILTVI ILSQLVARRQ KSSYNVLLAL AAADILVLFV IVFVDFLLED P FILNMQMPQV PDKIEVLEF SSHTSIWIT VPLTIDRYIA VCHPLKYHTV SYPARTRKVI VSVYTTCLT SIPYVWPNI WTEDYISTV HHVLIWHCF TVYLVPSCIF FILNSIIVYK LRRKSNFRLR GYSTGKTJTAI LFTITSFAT LWAPRUIML YHLYGAPIQN RWL VHIMSDI ANMLALLNTA INFFLYCFIS KRFRF	Homo sapiens
588	190427	CysteinyI Leukotriene CYSLT2 Receptor	NM_020377	aagttictia agttigaagc gtcagctica accaacaaca ttaattggccta ttctacattc aaaaatcagg aaatttaaat ttattatga atgtaatgca gcatgtagta aagactaac cagtgittta aaactcaact tcaagaaga agatagtatt gctccctgiti tcatiaaaac ctagaagagat gtaatcagta agcaagaagg aaaaagggaat attcaaaaag taacttttg tgcctgttic ttittaaacc agcatggaga gaaaatttat gtcctigcaa ccaatcatt cggtaicaga aatgggaacca aatggcaact tcaagcaata caacagcagg aaatgcacaa ttgaanaact caagagagaa ttittcccaa ttgtatact gataatatt ttctggggag tcttgggaaa tgggtgttc atatatttt tctgtcagcc ttalaagaag tccatcttg tgaacgttt tgaatatt cttggocatt cagatctct gttcataagc acgttccct tcaaggctga ctattatc agaggctoca attgagat ttggagacct gcttcagga ttatctia ttctgtat gtcaacatg acagcagtat ttattccg accgtgtcga gttgtgtcgt ttcttgca alggttacc cctttcggct tctgcagtc accagcatca ggaagctc gactctgt gggatcat ggaatctat catggcttc tcaataatgc tcttggagag tggctctgag cagaacggca gttcatalc atgcttagag ctgaatctt ataaatgc taagctgcag accatgaact atattgocct gggtgtggcg tgcctgtcgc cattttcac actcagcalt tttatctgc tgaatctgc gttcttgta aagtgaggag tccagaalc gggtgtgtcgg gttctcaca ggaaggcact gaaccacalc alcatcact tgaatctt cttctgtgt ttctgtccct atcacact gaggaocgic cacttgacga calggaaagt gggttatgc aagaacagagac tgcataaagc ttggttatc acactgtgoc tggcagcagc caatgctcgc ttcaatcgc tgccttata cttgtctggg ggaatttta aggaacagact aaggtctgca ctagaanaag gocatocaca gaaggcaag acaagggtg ttctccgt tagtgtgtgg ttgagaaagg aaacaagagt ataaggagct cttagagag acctgtctt gtaatctgt gtccalcitc atcatcact agcttccaa ttactttga ttacalcac tccacaacaa tgttattct taattattag ttgacalia cttttgtaa taagacctac ttcaanaat ttattcagtg tattttcagt tgttgagctc taatgaggga tacaaggaga aanaatoccta ctaggctct gttggctgaa atatcagact gggzaanaat gcaaaagcaca ttggatoccta ctttttca gatatgaac cagatctctg gocatcagg ctttataat tcttcaaaag agccacaact tcccaagcti ctocagctcc cctgtctct tcaatoccti gatatatagc aactaacgac gctactggaa gccccagagc agzaaaggag cacatctaa gattcaggga aagactaact gtgaanaaga aggtctgcti atacaagaagc agcatcaagt occaagtaag gacagtga gaanaagggg agaaagattg gaaacaaaga gaactgtgcaa taagttagggg aagggagaagt ttcatgtg atgggaag aggtttac acactgaag caacctat tctctgtt cttcttgc aggtgtattag gaaggacag aaaagtagga ggaagatctg gggcatggcc ctaggaaag aagaaattgt gtaagaatg gaagggggat catcaaggac atgtatctca aatttttt gtagatgcagg ttattgacc ttgtgtcagt tctcttcc ataatcat ttggatggaa gccaanaata aaaagggtgc cctgagagat taggggtgag cactcaaggg aagatggag taggggggcaa atagcaaaaag ttgtgtcact cctgaatc tattaacatt tccgaagaag atgtgttaggg agatgtcgc ttcccttg agatagtgta gaaaacact agtatgtg agaggttct ttctgtocat tgaacaag ctaggagat taccacact taccacact accatgtac tgaacaact tgaatgag	Homo sapiens

589	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	ctccctgcag ggcaatgat gccagccact ttacattgt tgcattccat accaaagctc tgcattccat ttacagctg aagaaatga agcttagaga aatlaagaag ctgtttaag ttacacagc tagtaagaat ttaaaatc tctgtgcaga agtgttgcct gggtgtctc ccaccacta ccttgtaaa ctccaggaa gatttgta aagcttgaat aaaaagctgc ctcttacc aattctcc cctctcac tctcaaga aaacaaaag ttctctca gatttgta ctataglac agtaagggt ggaagtata tggcattctg aaagttaga gggactaagt cagtgtcat actaac MERKFMSLQP SISVSEMEFN GTFNNNSRN CTIENFKREF FPVYLIF WGVLGNGLSI P YVFLQPKKS TSVNVFMLNL AISDLLFIST LPFRADYYLR GSNWIFGDLA CRUMSYSLYV NMYSSVFLT VLSVVRFLAM VHPFRLHVT SIRSAWILCG IIVILIMASS IMLLDSGSEQ NGSVTSCLEL NLYKIAKLQT MNYIALVVC LLPFTLSIC YLLIIRVLLK VEVPESGLRV SHRKALTTII ITLIIFLCF LPYHTLRVH LTTWKVGLCK DRLHKALVTI LALAAANACF NPLLYYFAGE NFKDRLKSAL RKGHPQKAKT KCVFPVS VWL RKETRV A cctgtgtgc acgtgtcga caaatctaa cctcaagg actccaaa ccaagagcac caggagccgt aatggggaac gattctga gctacagta tgggattac agcgactct cggaccgcc tgtggactgc ctggatggcg cctgtcggc caltcgaccg ctgcgtgtgc cccgtctcc actgtatgc gccatttcc tgggtgggt gccgggcaat gccatgtgg cctgtgtgc tgggaaggtg gccggcgga ggggtgggtgc cactgtgtg ctacccgg cgttggcgga ttgtctgtc tgtgtctc tgcattct ggcatgtccc atggccgtg gaaggccactg gccgtatgt gcatgtgggt gtcggggct gocctcaic atctgtctga ccaltatgc caggtctgc ctctggcag ctctcagtc cgaactcgc ttctgtgctc tcgggctgc ctgtgtgtc acgtgtcagc gggcgtgcgg ggtgcaggtg gctgtggggc cagcctggag actggcctg ctgtctacgg tgcctcgc calctaccg cggctgcacc agggagcacti ccaagccgg ctgcagtggt tgggtgga caggcgctcc tccagcaccg agatgcgt gactgcacalc cggttctt ttgcttct gggggccctg gtcggcgtg ccagctgcca cagtgccctc ctgtgtgggg cagcccgag ctgcggcgcc ctgggcacag ccatgtgtgt ggggtttt gtctgtggg caoctacca cctgtgtggg ctgtgtgtca ctgtgtggcg cccgaactc gcaactcgtg caggccct gggggtgaa cccctatcg tgggctgtgc cctgtcac agctgtccta atccatgt ctctgtat ttgggtgggg ctcaactcg ccgtgtactg ccagctgcti gctactggcg cctgaaggag tccaggggcc aggaagaaag tgtgacagc aagaaatcca ccagccatga cctgtgtc ggaatggagg tgaagctgg agagacattg tgggtgtgta tctctatc talticaa agactgtgtt caggcatagc tggatccagg agctcaatga tgtcttatt ttatcttc ctatcaaa cagalacca taltgacti gctatgtga aggccttiti aggcactaga gataagcag tgaocaaa agacaaaat cctggc MGNDVSVEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAFLVGV P PGNAMVAWVA GKVARRRVA TWLLHLAVAD LLCLSLPL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLFGFL GPLVAVASCH SALLCWAARR CRPLGTAVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPMFL FLYFGRAQLR RSLPAACHWA LRESQGDDES VDSKKSTSHD LVSEMEV atgtgtggcg cctgtgtct gggcctcagc ctgtgtgtc tctgtcaac tgggaggggg gccactgti gctgtcaca gcaactagg algaaggggg actatgtct gggggggcgctg ttccctcgg gcgagggcca ggaagctggc ctccgcagcc ggacagggc cagcagccct gttgtacca ggtacagag tggagacggcg tgggtcgggg tcaagggtgac caggtctggg gtgtctga gctggggcg aggtggocat ctgcgtgtct gttgtggccc aggttctct caaacggcti gctgtggga ctggccatga aaatggccgt ggaaggagatc aacaacagt cggatctgti gccggggctg cggctgggct acgactct tgatagctgc tggagcgctg tgggtggocat gaagcccgag ctaagtcc tgaatggc aggcagccgc gacatggcg	Homo sapiens
590	190437	G Protein- Coupled Receptor C5L2	NM_018485	aaagttaga gggactaagt cagtgtcat actaac MERKFMSLQP SISVSEMEFN GTFNNNSRN CTIENFKREF FPVYLIF WGVLGNGLSI P YVFLQPKKS TSVNVFMLNL AISDLLFIST LPFRADYYLR GSNWIFGDLA CRUMSYSLYV NMYSSVFLT VLSVVRFLAM VHPFRLHVT SIRSAWILCG IIVILIMASS IMLLDSGSEQ NGSVTSCLEL NLYKIAKLQT MNYIALVVC LLPFTLSIC YLLIIRVLLK VEVPESGLRV SHRKALTTII ITLIIFLCF LPYHTLRVH LTTWKVGLCK DRLHKALVTI LALAAANACF NPLLYYFAGE NFKDRLKSAL RKGHPQKAKT KCVFPVS VWL RKETRV A cctgtgtgc acgtgtcga caaatctaa cctcaagg actccaaa ccaagagcac caggagccgt aatggggaac gattctga gctacagta tgggattac agcgactct cggaccgcc tgtggactgc ctggatggcg cctgtcggc caltcgaccg ctgcgtgtgc cccgtctcc actgtatgc gccatttcc tgggtgggt gccgggcaat gccatgtgg cctgtgtgc tgggaaggtg gccggcgga ggggtgggtgc cactgtgtg ctacccgg cgttggcgga ttgtctgtc tgtgtctc tgcattct ggcatgtccc atggccgtg gaaggccactg gccgtatgt gcatgtgggt gtcggggct gocctcaic atctgtctga ccaltatgc caggtctgc ctctggcag ctctcagtc cgaactcgc ttctgtgctc tcgggctgc ctgtgtgtc acgtgtcagc gggcgtgcgg ggtgcaggtg gctgtggggc cagcctggag actggcctg ctgtctacgg tgcctcgc calctaccg cggctgcacc agggagcacti ccaagccgg ctgcagtggt tgggtgga caggcgctcc tccagcaccg agatgcgt gactgcacalc cggttctt ttgcttct gggggccctg gtcggcgtg ccagctgcca cagtgccctc ctgtgtgggg cagcccgag ctgcggcgcc ctgggcacag ccatgtgtgt ggggtttt gtctgtggg caoctacca cctgtgtggg ctgtgtgtca ctgtgtggcg cccgaactc gcaactcgtg caggccct gggggtgaa cccctatcg tgggctgtgc cctgtcac agctgtccta atccatgt ctctgtat ttgggtgggg ctcaactcg ccgtgtactg ccagctgcti gctactggcg cctgaaggag tccaggggcc aggaagaaag tgtgacagc aagaaatcca ccagccatga cctgtgtc ggaatggagg tgaagctgg agagacattg tgggtgtgta tctctatc talticaa agactgtgtt caggcatagc tggatccagg agctcaatga tgtcttatt ttatcttc ctatcaaa cagalacca taltgacti gctatgtga aggccttiti aggcactaga gataagcag tgaocaaa agacaaaat cctggc MGNDVSVEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAFLVGV P PGNAMVAWVA GKVARRRVA TWLLHLAVAD LLCLSLPL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLFGFL GPLVAVASCH SALLCWAARR CRPLGTAVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPMFL FLYFGRAQLR RSLPAACHWA LRESQGDDES VDSKKSTSHD LVSEMEV atgtgtggcg cctgtgtct gggcctcagc ctgtgtgtc tctgtcaac tgggaggggg gccactgti gctgtcaca gcaactagg algaaggggg actatgtct gggggggcgctg ttccctcgg gcgagggcca ggaagctggc ctccgcagcc ggacagggc cagcagccct gttgtacca ggtacagag tggagacggcg tgggtcgggg tcaagggtgac caggtctggg gtgtctga gctggggcg aggtggocat ctgcgtgtct gttgtggccc aggttctct caaacggcti gctgtggga ctggccatga aaatggccgt ggaaggagatc aacaacagt cggatctgti gccggggctg cggctgggct acgactct tgatagctgc tggagcgctg tgggtggocat gaagcccgag ctaagtcc tgaatggc aggcagccgc gacatggcg	Homo sapiens
591	190437	G Protein- Coupled Receptor C5L2	NP_060955.1	aaagttaga gggactaagt cagtgtcat actaac MERKFMSLQP SISVSEMEFN GTFNNNSRN CTIENFKREF FPVYLIF WGVLGNGLSI P YVFLQPKKS TSVNVFMLNL AISDLLFIST LPFRADYYLR GSNWIFGDLA CRUMSYSLYV NMYSSVFLT VLSVVRFLAM VHPFRLHVT SIRSAWILCG IIVILIMASS IMLLDSGSEQ NGSVTSCLEL NLYKIAKLQT MNYIALVVC LLPFTLSIC YLLIIRVLLK VEVPESGLRV SHRKALTTII ITLIIFLCF LPYHTLRVH LTTWKVGLCK DRLHKALVTI LALAAANACF NPLLYYFAGE NFKDRLKSAL RKGHPQKAKT KCVFPVS VWL RKETRV A cctgtgtgc acgtgtcga caaatctaa cctcaagg actccaaa ccaagagcac caggagccgt aatggggaac gattctga gctacagta tgggattac agcgactct cggaccgcc tgtggactgc ctggatggcg cctgtcggc caltcgaccg ctgcgtgtgc cccgtctcc actgtatgc gccatttcc tgggtgggt gccgggcaat gccatgtgg cctgtgtgc tgggaaggtg gccggcgga ggggtgggtgc cactgtgtg ctacccgg cgttggcgga ttgtctgtc tgtgtctc tgcattct ggcatgtccc atggccgtg gaaggccactg gccgtatgt gcatgtgggt gtcggggct gocctcaic atctgtctga ccaltatgc caggtctgc ctctggcag ctctcagtc cgaactcgc ttctgtgctc tcgggctgc ctgtgtgtc acgtgtcagc gggcgtgcgg ggtgcaggtg gctgtggggc cagcctggag actggcctg ctgtctacgg tgcctcgc calctaccg cggctgcacc agggagcacti ccaagccgg ctgcagtggt tgggtgga caggcgctcc tccagcaccg agatgcgt gactgcacalc cggttctt ttgcttct gggggccctg gtcggcgtg ccagctgcca cagtgccctc ctgtgtgggg cagcccgag ctgcggcgcc ctgggcacag ccatgtgtgt ggggtttt gtctgtggg caoctacca cctgtgtggg ctgtgtgtca ctgtgtggcg cccgaactc gcaactcgtg caggccct gggggtgaa cccctatcg tgggctgtgc cctgtcac agctgtccta atccatgt ctctgtat ttgggtgggg ctcaactcg ccgtgtactg ccagctgcti gctactggcg cctgaaggag tccaggggcc aggaagaaag tgtgacagc aagaaatcca ccagccatga cctgtgtc ggaatggagg tgaagctgg agagacattg tgggtgtgta tctctatc talticaa agactgtgtt caggcatagc tggatccagg agctcaatga tgtcttatt ttatcttc ctatcaaa cagalacca taltgacti gctatgtga aggccttiti aggcactaga gataagcag tgaocaaa agacaaaat cctggc MGNDVSVEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAFLVGV P PGNAMVAWVA GKVARRRVA TWLLHLAVAD LLCLSLPL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLFGFL GPLVAVASCH SALLCWAARR CRPLGTAVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPMFL FLYFGRAQLR RSLPAACHWA LRESQGDDES VDSKKSTSHD LVSEMEV atgtgtggcg cctgtgtct gggcctcagc ctgtgtgtc tctgtcaac tgggaggggg gccactgti gctgtcaca gcaactagg algaaggggg actatgtct gggggggcgctg ttccctcgg gcgagggcca ggaagctggc ctccgcagcc ggacagggc cagcagccct gttgtacca ggtacagag tggagacggcg tgggtcgggg tcaagggtgac caggtctggg gtgtctga gctggggcg aggtggocat ctgcgtgtct gttgtggccc aggttctct caaacggcti gctgtggga ctggccatga aaatggccgt ggaaggagatc aacaacagt cggatctgti gccggggctg cggctgggct acgactct tgatagctgc tggagcgctg tgggtggocat gaagcccgag ctaagtcc tgaatggc aggcagccgc gacatggcg	Homo sapiens
592	190438	G Protein- Coupled Receptor Ls190438	LG94114	aaagttaga gggactaagt cagtgtcat actaac MERKFMSLQP SISVSEMEFN GTFNNNSRN CTIENFKREF FPVYLIF WGVLGNGLSI P YVFLQPKKS TSVNVFMLNL AISDLLFIST LPFRADYYLR GSNWIFGDLA CRUMSYSLYV NMYSSVFLT VLSVVRFLAM VHPFRLHVT SIRSAWILCG IIVILIMASS IMLLDSGSEQ NGSVTSCLEL NLYKIAKLQT MNYIALVVC LLPFTLSIC YLLIIRVLLK VEVPESGLRV SHRKALTTII ITLIIFLCF LPYHTLRVH LTTWKVGLCK DRLHKALVTI LALAAANACF NPLLYYFAGE NFKDRLKSAL RKGHPQKAKT KCVFPVS VWL RKETRV A cctgtgtgc acgtgtcga caaatctaa cctcaagg actccaaa ccaagagcac caggagccgt aatggggaac gattctga gctacagta tgggattac agcgactct cggaccgcc tgtggactgc ctggatggcg cctgtcggc caltcgaccg ctgcgtgtgc cccgtctcc actgtatgc gccatttcc tgggtgggt gccgggcaat gccatgtgg cctgtgtgc tgggaaggtg gccggcgga ggggtgggtgc cactgtgtg ctacccgg cgttggcgga ttgtctgtc tgtgtctc tgcattct ggcatgtccc atggccgtg gaaggccactg gccgtatgt gcatgtgggt gtcggggct gocctcaic atctgtctga ccaltatgc caggtctgc ctctggcag ctctcagtc cgaactcgc ttctgtgctc tcgggctgc ctgtgtgtc acgtgtcagc gggcgtgcgg ggtgcaggtg gctgtggggc cagcctggag actggcctg ctgtctacgg tgcctcgc calctaccg cggctgcacc agggagcacti ccaagccgg ctgcagtggt tgggtgga caggcgctcc tccagcaccg agatgcgt gactgcacalc cggttctt ttgcttct gggggccctg gtcggcgtg ccagctgcca cagtgccctc ctgtgtgggg cagcccgag ctgcggcgcc ctgggcacag ccatgtgtgt ggggtttt gtctgtggg caoctacca cctgtgtggg ctgtgtgtca ctgtgtggcg cccgaactc gcaactcgtg caggccct gggggtgaa cccctatcg tgggctgtgc cctgtcac agctgtccta atccatgt ctctgtat ttgggtgggg ctcaactcg ccgtgtactg ccagctgcti gctactggcg cctgaaggag tccaggggcc aggaagaaag tgtgacagc aagaaatcca ccagccatga cctgtgtc ggaatggagg tgaagctgg agagacattg tgggtgtgta tctctatc talticaa agactgtgtt caggcatagc tggatccagg agctcaatga tgtcttatt ttatcttc ctatcaaa cagalacca taltgacti gctatgtga aggccttiti aggcactaga gataagcag tgaocaaa agacaaaat cctggc MGNDVSVEY GDYSDLSDRP VDCLDGACLA IDPLRVAPLP LYAAFLVGV P PGNAMVAWVA GKVARRRVA TWLLHLAVAD LLCLSLPL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLLAALSA DLCLALGPA WWSTVQRACG VQVACGAAT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLFGFL GPLVAVASCH SALLCWAARR CRPLGTAVV GFFVCWAPYH LLGLVLTVA PNSALLARAL RAEPLIVGLA LAHSLNPMFL FLYFGRAQLR RSLPAACHWA LRESQGDDES VDSKKSTSHD LVSEMEV atgtgtggcg cctgtgtct gggcctcagc ctgtgtgtc tctgtcaac tgggaggggg gccactgti gctgtcaca gcaactagg algaaggggg actatgtct gggggggcgctg ttccctcgg gcgagggcca ggaagctggc ctccgcagcc ggacagggc cagcagccct gttgtacca ggtacagag tggagacggcg tgggtcgggg tcaagggtgac caggtctggg gtgtctga gctggggcg aggtggocat ctgcgtgtct gttgtggccc aggttctct caaacggcti gctgtggga ctggccatga aaatggccgt ggaaggagatc aacaacagt cggatctgti gccggggctg cggctgggct acgactct tgatagctgc tggagcgctg tgggtggocat gaagcccgag ctaagtcc tgaatggc aggcagccgc gacatggcg	Homo sapiens

[illegible]

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Homo sapiens

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594 190484 G Protein- Coupled Receptor Ls190484 LG95579 Homo sapiens

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597	190595	G Protein- Coupled Receptor SH120	NP_057418.1	P	<p>aggtcgacagg cggcgctgag tggagcgggg gccgcggccg cgcgcagag atgtactcg ggcggaaggc cagctggagc gtcgcgctg cggcgccgag ggggtcgaat gttgtgga tcaagagaa agatagagag tcaacaggtg ctacactcc tctgtctt cgtatcac tgggtgct cgaagacg cagcacatc cgaagctgt ggttggaat ccttccag tacgtgtcc tgtgcact ggaagcact tggggcattg tgggtgagg ggtggcggg gggggccccc tgalcacat gtctatg ctatctcc tgggtggt gccctatc aagggagagg agagaagag cctgtggg ctocacttc tgttctct ggggaacccg ggtcttgg ggtgaggt tgcctatc atccagagag acgagagcat ctgctgtc cgccgttcc tctggggcgt cctgttgc ctgtctt cctgtctt gggccagga tggcgcgctg ggaaggctgt ggggcatggc acggggcccg cgggctggca gctgggtggc cggcgctgt ggtatgt ggtgcaagtc atcatgctg tggagtggt ggtgtcacc ggtgtgctg acacaaggc agctgtg-cgc tacgagocca tggacttgt gatggccctc</p>	Homo sapiens
598	190599	G Protein- Coupled Receptor GPRC5B	NM_016235	A	<p>aggtcgacagg cggcgctgag tggagcgggg gccgcggccg cgcgcagag atgtactcg ggcggaaggc cagctggagc gtcgcgctg cggcgccgag ggggtcgaat gttgtgga tcaagagaa agatagagag tcaacaggtg ctacactcc tctgtctt cgtatcac tgggtgct cgaagacg cagcacatc cgaagctgt ggttggaat ccttccag tacgtgtcc tgtgcact ggaagcact tggggcattg tgggtgagg ggtggcggg gggggccccc tgalcacat gtctatg ctatctcc tgggtggt gccctatc aagggagagg agagaagag cctgtggg ctocacttc tgttctct ggggaacccg ggtcttgg ggtgaggt tgcctatc atccagagag acgagagcat ctgctgtc cgccgttcc tctggggcgt cctgttgc ctgtctt cctgtctt gggccagga tggcgcgctg ggaaggctgt ggggcatggc acggggcccg cgggctggca gctgggtggc cggcgctgt ggtatgt ggtgcaagtc atcatgctg tggagtggt ggtgtcacc ggtgtgctg acacaaggc agctgtg-cgc tacgagocca tggacttgt gatggccctc</p>	Homo sapiens

190599	G Protein-Coupled Receptor GPRC5B	NP_057319.1	<p>atlaacagaca tggtaactgct tgggtgacc ctggggctgg ccccttacc tctgtgcggc aagttcaaga ggggtgaaagct gaacggggggcc ttcccttca tcaagccctt cctctctgtg tctatctggg tggctctggga gaccatggtaac ctcttgggca atgtcaagct gcagtcaggggg gtaacctggga acgaaccac ctgggccaac acgtctggcgg ccagcggggctg ggtcttctg atcttccagc ccattccctga gatacctg accctctg ccagccctga ggaagacag cccaactact tggacacgic gcaagccaggg atgggggga cggccttcga ggaagacgtg cagctggccg ggggcttata ggaagacaa ggccttctcca tgggaagaca caatggcagct ctccggaaacag cagggatucc caacgggcag ttggggaaaaa gaaocacgggg cagctggggg aaaaagaccca ggcctccgtt tagaagcaac gttgatacgc caactgagat ggcggctggg ctcaacgggtg ggaacacatccc aaactgctccg ccaagtcaca cagggaaagaca cctttggga aagactttaa gttccacggga atcagaatit ctcttaaccga ttggctccc tggctgtgic ttcttgggg gaaagaaatgg taacagttgc gaaacacggc cgcctcagag ccagggaaat tggaaatct agccaaggggg atttctgta aatgggaac ctgacgaaat gaaagcttaa caccgactgc ccggccctcc tctggcacac acacagacac gtaataccag accaaoccca atccccgcaa actaaagcaa agctaaatg aaalagttt agggctcactg gaaatgtggg ctggggaagac tggttatcc tctgggggga gaaacgaac aaattacag ctggggggcc agactggggc ggtttgggaagg tgggtgggctc ccacttata cacttccc cagcaagtc ggaacccag gtaagccctt ggaagatgacc gttcggttga ggaacaaatgg ggaacttgc accggctgc ctgggtgtt gcaattca gggggggcag ggaagttaaag gagggttgggg gttgggattcc aaggttgaagc ccaactgaat cgtggggga gctttalagc cagtaagaggt ggaaggggaccc tggcalgtgc caaagaaag ggcctctggg tgaagagtg accatcac ttggaaagtg atcaaacat gttcttcta tgggggctct gctctaaagt ctatggtag aacacagggc ccggccctc ccttgtagag ccaagaaat attctggctt gggggcagcag tcccttct ccttgatcat ctggccgtt tcttaacti accgggtgat ctccaaatc tctccaat ttattccct attatttca agaaactccaa tgggggtctcc agctgaagc cctccggga ggcagggttgg aagggcagggca ccagggcagg ttctccgga tgaigtcaoc tagcagggct tcagggggtc ccactagat gcaagatga cctctggc tccacaa ggcacagc agtgacacct cgggctctt ccgttgcata ggtgaaat cctggatgga atggatcaca tgggatgca tgggggtt tggatctt tggaggggtt ggggggatat tggtttgg ttcttcag gttccagaa aacagccct ttcaagccc attgttctg tcaagttic catctgctt gaggcaagica ttcttgtt atttagcatt tgaacatc cggccattca aagcccccatt gttcttgc ctgttggcc agcataacct ctgacatga ttcaagcag agtttacc tgaaggcag gaaatgataa atgaagggtg gttcttgc agactctia atcaactat tgcatttct ataaactac ccataagcct ttaacctta aagaaaaat gtttgggg ggcgggggag gactgaccgc ttcataagcc agtagctgic agctagat gttcaataa acccttga atttccaa aaaaaaaa aaaaaaaa</p>	P	Homo sapiens
190602	G Protein-Coupled Receptor GPCR150	NM_014373	<p>mfvaserkmr ahqvlftlll fvitsvasen astsrgcgld llpqvyslcd ldaiwgivve avagagalit lllmlillvr lpfikekk spvglhflfl lgtlglfslt fafiqdet icsvrrflwg vlfalcfsl lsqa wrvrll vrhgtgpaw qlvglalclm lvqviiave vlvltvldrtr pacayepmdf vmalymvl lvvtlglalf tlcgkfrkw lngafllta flsvliwvaw mtmylfgnvk lqqgdawndp tlaaitlaag wvfvihaip eihtllpal qentpnyfdt sqprmretaf eedvqlpray menkafrmde hnaalrtagf pngslgkrps gslgkrpsap frsnvyqpte mavvlnnggti ptappshtgr hlw gttggctga ggtggccccc ctgcagtcgg gacagcgaac cagggacccg ggcctccggag gcaaggtcgg ctggaaaggaa ccgccttgc ttgcttacc acttggcga atgtctgca gacttacc atagcattt ggtatataa aatgaaatg aaggaaccaa aataacata atgaaggca gtaaaagga aatuaatag gaaatcacc agtcaagga agtcaagggaa gacccctgg aagggacaga aatgaagca gttttac atgttatt cagcaggtct tctgaaat taactaaaa tatgactgt ctcttcag agaactgtc ttitacag cagttacg aaacaaaca gccctagac gtaactalc tgcattctt gatcatact ggggaatat tattaatat cctacacta ggaatgaga gaaaaaac ctgtcaaat ttatggat atttgcatt ttactaga ttgttgatc</p>	A	Homo sapiens

601	190602	G Protein-Coupled Receptor GPCR150	NP_055188.1	<p>ttttacttitt ggtaaacatt tccattatatt tgaatttcag ggattttgta ctttaagca ttaagttcac taataaccac atctgcctat tactcaaat tatttccttt actaaggct ttttgacata tccagtttc ctgacagctt gtaagatta ttgcctggaat ttcttaaaa caaccaagct ttactttaag tgcataaat tattttatt ctttaacagta attttaatt ggatttcagt ccttgcttat gttttggggag accagagcat ctaccaaaagc ctgaaggcac agaatgctta tctcgacac tgcctcttct atgicagcat tcaagattac tggctgcat ttttcaggt gattgattta ttgttagctt tcaaacctg ttgggaagaa gttactact tggtaacagc tatcaggata acttcctata tgaatgaaac tatctatat ttctctttt catccactc cagttaact tgaagataa aaaaataatt ctatccaag ctatgtgtct gttttctcag laacciggta ccattgttac tacticaggt aatcattgt ttactaaag ttcaagattcc agcatatatt gtagatgaala ttccctggtt atactgttc aatagtttc tcaatgtac aggttatggg tttaattgc acaagctaa tttaaaagac attggattac ctttggatcc attgtcaac tgggaagtgt gcttattcc acttaaat octaatctt agcaaatga aagocctata tcaataatga tttgttaata ttataata aagattacag ctgtataag atcataatt tatgaacaga aagaactcag gacatatata aaaaataaact gaactaaaac aactttgcc cctgactga tagattica gaaigtgt ttgaagggc tatccaggt attaaatagt gttttattt aaaaacaaaa taattccaag aagttttat agttatcag ggacacata ttacaatat tacttgta ttaacacaaa aagtgataag agtttaacatt tggctatat gattgtttg ttactcaaa aaactactgg atgcaaacctg ttatgaaat ctgaatttc actgacacat ttaagatac aaactaaca ttattataa atgttcaaat gtaagcaaga aaaaaaaa</p> <p>MTALSSNCFS FQYQLRQTNQ PLDVNYLLFL ILGKILLNI LTLGMRKNT P Homo sapiens</p> <p>CQNFMEYFCI SLAFVDLLLL VNISILYFR DFVLLSIRFT KYHICLFTQI ISFTYGFLHY</p> <p>PVFLTACIDY CLNFSKTKL SFKQCKLFYF FTVILWISV LAYVLGDPAL</p> <p>YQSLKAQNAV SRHCPFYVSI QSYWLSFFMV MILFAFIC WEEVTTLVQA</p> <p>IRITSYMNET ILYFPSSHS SYTVRSKKIF LSKLIVCFLS TWLPFVLLQV IIVLLKVQIP</p> <p>AYIEMNPWL YFVNSFLIAT VYWFNCHKLN LKDIGLPLDP FVNWKCCFIP</p> <p>LITPNLEQIE KPISIMIC</p>
602	190623	Melanopsin	AF147788	<p>gggtccacc catcagaca cagcttcag ccaggacagc ttgggacaga gtagtcatag gtagacatctg gaggctgagg cttccacgc ggccctctg gctccattgg atggcaggct ccggggacagac gaggctgocag g'gggtgtg'gg g'atgcaagg tttggagcaa gaggcccalg gggaagcctcc ccagttgggac agaaagcacag g'atgtggggg g'ttggggccct g'aggagatct cagttgcaac cgaacggct g'cagttgacg gcccatggag aaaggacatt g'caggtggag acgtggggcti ccaaggccc caggctgggg gttccgagtc ctgtatcti tccctgaggt gctccttga ggccctgtggc accctgggta t'gtggattcc cggctcalt gtccactga caagcactc tccctggag tccctgtgct gctccatcac ctgcaacct tcttaattag cagggtggag agttggggctcc acattgaatg ggaaggtgtg ttgactcaga atgtctcca gctgtggagaa atgttaaac cccatcata aaacgcaagc agctggcatt gaggcttaggg acagaaagaa aagccggccc ctacggctca cccggccccc aggggtggct ctgtggagcca aagccctgaa g'gggaagagc ctacggagagaa agggcagctg agccatgggc tggcagctgc agggagga gctccctc ccagttggag t'gtccacti tctctgtc aaacctgggg ctccagggag actgttggta aagactgggg gaactctgg aagggaggtg alactctgt ccactccagg gctccacac tccacgact g'ggccagggac atggccccc cttaggata ccgctggccc gtcgggctcc cctaaacgca gctctgtg t'cagggctag cccggagcagc cctccctgga agccgtgtg t'cagcttcc ttctccag ctctctgct ctctcgaag acaggggcaag ggggcaggccc gggtggccct ccactctga catcagta acttgatca ggccctcagg cctgggtgag ttctgggac tctccaata aggttttaa aaactttat actttaaaa ttctggccg gccaggtggc t'cagcctgt aatctggca ctttgggaag ccgaggggtgg t'ggatccct gagggtcagga gttcagagct agccctggcca acatgtgtgaa ctctgctc t'gtaatat acaaaaat g'ccaggtgtg gtggcgggtg cctgtaatcc cagctactg ggaggtcag g'cagggagaaat t'gctggacc t'ggggaggggg aaggtcag gagctgagat tgcacattg cactccagc tgggtgacag agcaagctg tctcaaaa aataaaaaa aaaaaataa acttttat caaaaaaa gcaaaagccg cctctg'gact t'gattccac atctctctg t'gcttccatc t'gtgaaagg</p>

[illegible]

[illegible]

sapiens	<p>GTWAAA WVPL PTVDPDHAH YTLGTVILLV GLTGMLGNLT VYTFCSRSL L RTPANMFII NLA VSDFLMS FTQAPVFFTS SLYKQWLFGE TGCEFYAFCG ALFGISSMIT LTAIALDRYL VITRPLATFG VASKRRAAFV LLGVWL YALA WSLPFFGWS AYVPEGLLTS CSWDYMSFTP AVRAYTMLLC CFVFLPLLI IYCYFIFR AIRETRALQ TFGACKNGE SLWQRQLQS ECKMAKIMLL VILLFVLSWA PYSVALVAF AGYAHVLTYPY MSSVPAVIAK ASAIHNPIY AITHPKYRVA IAQHLPCLV LLGVSRHSR PYPYSRSTHR STLSHTSNL SWISIRRRQE SLGSESEVGW THMEAAAVWG AAQANGRSL YQGLEDLEA KAPPRPQGHE AETPGKTKGL IPSQDPRM</p>	
Homo sapiens	<p>atggalacag gccccgacca gctcattc tccggcaac actggttcgt ctctcgtg tactttctca ctcttcgtt ggggctcccc ctcaactgc tggccctggt ggtctctg gggcaagctgc agcccgccc ggtggccggtg gacgtgcttc tgcataact gaccgctcg gacctctc tgcctggt cctgcttc cgcattggtg agcgagccaa tggcagcac tggccctgc ccttcact ctgccact tctgattca tctctcac caaccatct ctaccgcc tctctggt agctggtggt attgaacgt tctggtgt gggccacca ctgtgtgaca agaccggcc gggctgggg caggcaggc tgggtggtgt ggcctgctgg ctgtggct ctgtcact cagcgtggt tactatag aattctcag ggcattctc caccagccag gcaccaatgg gacctgtac ctgggttc ggaaggacca gtagccatc ctctgccg tggcgtgga gattggtgtg gtctcttg tggctcgt gatacacc agtactgt acagcgct ggtgtggatc ctggcagag gggcgagcca ccggcgagcag aggaggtgg cgggctgt ggcggccag ctctcaact tctgtctg ctggcgcc tacaacgtgt cccatgtct gggtatct tgcgtgaa gccggcag ggcattctac gtagcgttc tcaacacct gaaacctgt gtgcacct tgttacta ctctctc tccgggtcc aagcgact tcatgact ctgagaggt tgtgtggct ctggggccag tggcagcag agagcagcat ggaagctgag ggcagagag gggggagag gacggagcag ctgaagaaga ggcaatga cactacag gctgtgaa tgggtggcag ggtgctgt ctgaagctg ctgaagctg MDTGPDSYF SGNHWFVSF YLLTFLVGLP LNLLAL VVVF GKLRPPVAV DVLLNLNTAS DILLLLFLPF RMVEAANGMH WPLPFLCPL SGFIFFITTY LTALFLAAVS IERFLVAHP LWYKTRPRLG QAGLVSVACW LLASAHCSVV YVIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVVPLIIT SYCYSRLVWILGRGGSHRRQ RRVAGLLAAT LLNFLVCFGP YNVSHVVGYI CGESPAWRY VTLSTLNSC VDPFVYFSS SGFQADFHEL LRRLCGLWQQ WQQESSMELK EQKGGEEQRA DRPAERKTSE HSQCGCTGGQ VACAES</p>	<p>604 190627 G Protein-Coupled Receptor GPR41 & GPR42 NM_005304</p>
Homo sapiens	<p>caagactgt cctctgccc gactacaaga gattggagcc atggcttgg agcagaacca gtcaacagat tattattag aggaaatga aatgaatggc actatgact acagtcaata tgaactgac tgaataag aagatgtcag agaattgca aaagtcttc tccctgtt cctacaata gttttgtca ttgacttgc aggcattcc atgtgagtg caattatgc ctattacaag aaacagagna ccaaacaga ttgtatc ttgaatttg ctgagcaga ttactctt ctattact tgccttgg ggcgtgtaat gcagttcag gggtggttt agggaaaaa atgtgcaaaa taacttcag ctgtacaca cttaacttg tctctggaat gcagttctg gctgtatca gcatagacag atattggca gtaactaag tcccagcca atcaggagtg ggaataacat gctggatcat ctgttctgt gtctggatgg ctgcatctt gctgagcata cccagcttg tttttatc agtaatgac aatgtggt gcatccat ttccccgc tacctaggaa catcatga agcattgatt caatgtctag agatctgat tggatttga gtaccttc ttatttgg ggtgtgtac ttttacacag caaggacact catgaagatg ccaaacatta aaatctcgc accctaaaaa gttctgtcta cagctgtat agtttcat gtactcaac tgccttataa catgtcaag ttctgcccag ccatagacat catctactcc ctgatacca gctgcaacat ggagcaaacgc atggacatcg ccatocaagt cacagaagc atcgactct ttacagctg cctacaacca atccttatg</p>	<p>605 190627 G Protein-Coupled Receptor GPR41 & GPR42 NP_005295.1</p>
Homo sapiens	<p>caagactgt cctctgccc gactacaaga gattggagcc atggcttgg agcagaacca gtcaacagat tattattag aggaaatga aatgaatggc actatgact acagtcaata tgaactgac tgaataag aagatgtcag agaattgca aaagtcttc tccctgtt cctacaata gttttgtca ttgacttgc aggcattcc atgtgagtg caattatgc ctattacaag aaacagagna ccaaacaga ttgtatc ttgaatttg ctgagcaga ttactctt ctattact tgccttgg ggcgtgtaat gcagttcag gggtggttt agggaaaaa atgtgcaaaa taacttcag ctgtacaca cttaacttg tctctggaat gcagttctg gctgtatca gcatagacag atattggca gtaactaag tcccagcca atcaggagtg ggaataacat gctggatcat ctgttctgt gtctggatgg ctgcatctt gctgagcata cccagcttg tttttatc agtaatgac aatgtggt gcatccat ttccccgc tacctaggaa catcatga agcattgatt caatgtctag agatctgat tggatttga gtaccttc ttatttgg ggtgtgtac ttttacacag caaggacact catgaagatg ccaaacatta aaatctcgc accctaaaaa gttctgtcta cagctgtat agtttcat gtactcaac tgccttataa catgtcaag ttctgcccag ccatagacat catctactcc ctgatacca gctgcaacat ggagcaaacgc atggacatcg ccatocaagt cacagaagc atcgactct ttacagctg cctacaacca atccttatg</p>	<p>606 190701 C-C Chemokine Receptor 11 NM_016557</p>

607	190701	C-C Chemokine Receptor 11	NP_057641.1	MALEQNQSTD YYVEENEMNG TYDYSQYELI CIKEDVREFA KVFLPVFLTI VFVIGLAGNS MVVAIYAYYK KQRTKTDVYI LNLAVADLLL LFTLPFWAVN AVHGWVLGKI MCKITSALYT LNFVSGMQFL ACISIDRYVA VTKVPSQSGV GKPCWIIFCF VWMAALLSI PQLVFYTVND NARCIPIPR YLGTSMKALI QMLEICIGFV VPFLIMGVCY FITARTLMKM PNKISRPLK VLLTVVIVFI VTQLPYNIVK FCRAIDIYS LITSCNMSKR MDIAIQVTES IALFHSLNP ILYVFMGASF KNYVMKVAKK YGSWRQRQS VEEFPDSEG PTEPTSTFSI gattigegga gtaigeggc agigocccag igacagcggg acagagagag eggaagictg cgttigatag aagagacatg egactccgag ctggccgiga gaacccctgg agcccgagtg ctggcttac gggctgctact cctcaactct gctccaaagc agccgctgag ctaactct g-gtccaggg cgttcgctgc ggcgcagggac ggcgctagta ccagttctt gggctctctc ttcagtagct gcttgaag ctccacgca cgtcccgag gctagccctgg caaaaaact gggggtataacc ggttatctt aggtctgtic cccaggaaca tgaactagag gtaactggc algcagalg gcttgggag cgggccaacac gtagtggtaac agggcagcagg cggggagacaag cttagcagaac tcttcagict gggtccgggac cttcggggag cgggccaacac gtagtggtaac g-cgtcgtgc agcttccgga cttggtgggg gtagctggggg tggagttggcc gggagggcgc cggccaggac atccccggg cagcggcggg gcaagagagc cgggacagga gggccgggg gggaltctca tcaagctggg gtagctgggg gtagcggcc tgggggtggc gggcaacctg ctggttctt acctgaltga gtagcagcag gggctggcgcga agtctctat caactcttc gtaccaacc tggcgctgac ggaactttcag ttgtgtctca cctggccct ctggggggg gtagaacgtc ttgacttca atggcccttc gggcaaggcca tggtagagat cgtgtccatg gtagcgttca tgaacalgtta cggccagcgtg tttctctca ctggccatgag tggagcggc taacttcgg tggctcggc tctgaagag caccgggacc gtaggagacagg cggggggcggac tggctggcc ggaagcctggg ggaacagctgc tgcctcggc ccaaggcgt gtagtgggg atctggggct tggccggcgt ggcctcggct cccagtgcca ttctccac caggggtcaag gtagtggggc cctgggtgtt ttccgggaca agttgtggg ccgcgacagg cagttctggc tggggcttca ccactcggcag aaggtgtgtt tgggtctgt gctggcgtg gggcatlta tctgtgtca cctgtgtc gttggcttca tggccggc cggccggc ggggacaaag gtagggggcgc gtagggcggga ggaagccgga ccggagccag cggccgggga ctgtcgaag tcaacaaat agtgaacalc gttgtctgt ccttctct gttgtgtc ccaacagg cgtcaccac ctgggagc ctaacagt tcaacgggt gcocttcaag caggaggtat tctgtgtcca ggtatagc ttcctgtga gctgtgtc agcggcactcc aacagctggcc tcaacccgt cctctactgc ctgtgtggcc gtaggttccg caaggcgtc aaggtgtc tgggtgtc cgggtctct tggatcaca gtagggccc cttaaccgg actaaccg cggagcagga gtagtgggg ctgaggggcc cggcgccggcc ccaagcggcc	P	Homo sapiens
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Homo
sapiens

P

NP_057652.1

G Protein-
Coupled Receptor
SALPR

190705

609

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GVVYSGGRY DLLPSSAY

Homo
sapiens

A

NM_018970

G Protein-
Coupled Receptor
GPR85 (SREB2)

190711

610

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611	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NP_061843.1	<p>ataccattt cctcatctac tagtaagatt gctagcatg aactglatia tgggtttt gttgattgg tataaagtt ttcaattica tttatattt acaaatgcta gatattggc tgggaaggcaa cattaatgg accagccgtt cacaactgag cagttctaat aalgcagaat aaatacatgt tgccttaaaag ggtaictag tatccttcat ctatattag actggagcaa atagccaagg gaaatcaaat cagtaactgg tcalggicat gcatiaaaa gtcagtgaa gactattat tactttcc ttnttttc acatgggttg aaactaaag tgcacatcac tgaataatg agattttct ctacgggtg ctaccttc taaactgic taaagaagcag gcatgtag taltgttata tttaagtca gctgtcaagg ggaaccaca gccctagat gacatccgtt acaatttg agcatattat tctactgag gcacagtctt gttatctt tctgcacat caggtattg gtaattaaa ttattcagt ttaactgt gaaagctat attatgatt cttgatttt agaaatacat tagagctgt gacttcatt cttaagata cagatgtg aactcaaa taaagtigca ttgccaataa ttaccocgig tagcctgtta atttttga aataagttt acatttttg cacatacaa cgtttttt aattgggag gcaagcaca actaggaga ctactttat taggtttg cttttgatt ctgtagcta ctatcca gactggaat gtaagaaga taatcaaat aatgctgata aactgacata ataatctg taaaagcatt attggtagt ttattaat catccctcta ttacttaa algccagtag tattagaga tgtgtacctg ctagttaat tggctcagaa tttaataa aacatcac tttaattgg agcatagiac catagaaat tggggcttca aataacac ttgtaagaag aatggttac actaacata tgaacaaact agaaaaagt attattttg ttgcttct gttgtttg ttatgttg gtttttg agttattt ttnttgta ttgataat aagatagga actaataac acagaattc atattgctat agtactctg taaagaat atcaataa ataggaataa taatcaatg aaatttca atggttaaa aaaaaaaa aaaa MANYSHAADN ILQNLSP LTA FLKLTSLGFI IGVSVVGNNLL ISILL VKDKT LHRAPYYFLL DLCCSDILRS AICFPFVFNK VKNGSTWTYG TLTKKVIAFL GVLSCFHTAF MLFCISVTRY LAIAHHRFT KRLTFWTCLA VICMVWVTLV AMAFPVLDV GTYSFIREED QCTFQHRFR ANDSLGFMLL LALILLATQL VYLKLIFFVH DRRKMKPVQF VAAVSNQWTF HGPAGSQAA ANWLAFGRG PTPTLLGIR QNANTTGRRL LLVLDEFKME KRISRMFYIM TFLFLTLWGP YLVACYWRVF ARGPVVPGGF LTAAVWMSFA QAGINPFVCI FSNRELRRCF STTL YCRKS RLPREPYCVI</p>	P	Homo sapiens
612	190725	G Protein- Coupled Receptor GPR26	LG93120	<p>aggtagtgg agctcttc caeggtccc ateggtccc actgggggtt gctgtccaag tgcctgggt acagcaaggc cgatccgac cctttgt actcttact ggcacacacag taccgcaaaa gcctgcaagg gattctgaac aggtctctgc acagagctc catccatcc tctggctca caggcgactc tcacagccag aacattctgc cgggtctga g MNSWDAGLAG LLVGIMGVSL LSNAL VLLCL LHSADIRROA PALFTLNLTC GNLLCTVNM PLTLAGVVAR QPAGDRLCR LAFLDTFLA ANSMLSMAAL SIDRWVA VVF PLSYRAKMLR RDAALMVAYT WLHALTFPA ALALS WLGFH QLYASCTLCS RRPDERLRA VFTGAFHALS FLLSFVVLCC TYLKVARFHC KRIDVITMQT LVLVDLHPS VRERCLEEQ RRRQRATKKI STFIGTFLVC FAPYVITRLV ELFTVPIGS HWGVLSKCLA YSKAASDPFV YSLLRHQYRK SCKEILNRLL HRRSIHSSGL TGDSSHQNIL PVSE</p>	A	Homo sapiens
613	190725	G Protein- Coupled Receptor GPR26	LR26	<p>actgctgagc cttatctt cttgctgacc tgcgtgacc gattgtggcc ttatggccc tgccttttg ctccatgcg gccttcacg gocaggctc ttatcttc tgcctgacc tgcgtgacc gattgtggcc ttatggccc tgccttttg ctccatgcg gccttcacg tgcctgacc cgcctacagc ccatggcca ccacgcttc taccgcaagg gcatgacact ctggacacg gcggctgtca tctgacagc cttgacacctg tctgtggcca tggcctccc accctgtt gacgtgggca cctacaagt tattcggag gaggaccagt gcatcttga gcatcgctac ttcaaggcca atgacacgt gggcttcacg ctatgttg cttgtctcat</p>	P	Homo sapiens
614	190741	Sreb3	NM_018969	<p>atggccaaca ctacggaga gcttgaaggag gtagcggcg cttgtccc accgtccgca tcaactag tgaagctgtt actgtggga ctattatgt gcgtgagctt ggcgggtaac gccattctg cctgtctgtt gctcaaggag cgtgccctgc acaaggctc ttactctc tgcctgacc tgcgtgacc cgtatggcata cgtctgccc tctgtccc cttgtctgtt gctctgtg gocaggctc ttatggacc ttcatggac tcatggac tcatggac gattgtggcc ttatggccc tgccttttg ctccatgcg gccttcacg tgcctgacc cgcctacagc ccatggcca ccacgcttc taccgcaagg gcatgacact ctggacacg gcggctgtca tctgacagc cttgacacctg tctgtggcca tggcctccc accctgtt gacgtgggca cctacaagt tattcggag gaggaccagt gcatcttga gcatcgctac ttcaaggcca atgacacgt gggcttcacg ctatgttg cttgtctcat</p>	A	Homo sapiens

615	190741	Sreb3	NP_061842.1	P	Homo sapiens	<p>ggcagctacc catgctgct accggcaagct gctctcttc gattatgct accgcaagat gaagocagtg cagatggctg cagccalcag ccagaaactgg acaltccatg gtccgggggc caccggccag gctctgcca actggatgc cggcttggc cgtggggcca tgcacacca ccgtctgggt atccggcaga atgggcatgc agccagccgg cggctactgg gcatggacga ggfcaagggt gaaaagcagc tgggocgcat gttctacgc atcacatgc tcttctgt cctctgttg gattgacttc tggctgcta cggcgagtg ttgggaaag cctgtgct gtccaccgc taactggcca cgtctgttg gattgacttc ggcagctg ccgtcaacc aattgtctg ttctgtca acaagacct caagaagtg ctagggactc agggccctg ctggggcaca ggaggggcc cggctccag agaacctac tggatcat g</p> <p>MANNTGEPEE VSGALSPSA SAYVKLVLLG LIMCVSLAGN AILSLVLKE RALHKAPYYF LLDLCLADGI RSACVFPFVL ASVRHGSSWT FSALSKIVA FMAVLFCFHA AFMLFCISVT RYMAIAHHRF YAKRMTLWTC AAVICMAWTL SVAMAFPPVF DVGTYKFIRE EDQCFEHRF FKANDTLGFM LMLAVLMAAT HAVYGKLLLF EYHRKMKPV QMVPALSNQW TFHGPATGQ AANWIAFGF RGPMPPTLLG IRQNGHAASR RLLGMDEVKG EKQLGRMFYA ITLLFLLWS PYIVACYWRV FVKACAVPHR YLATAVVMSF AQAAVNPIVC FLNKLKLC LRTHAPCWGT GGAPAPREPY CVM</p>
616	190742	G Protein-Coupled Receptor H7TBA62	E32367	A	Unidenti	<p>gggctctg cagagactg agcaggaag ggggggaaag cggcgataga ggttagcagg aatgttaat tatcaggagc aggaaagaa ctggggcat gccaggctc acaggccc tcatggccc aggttccca ggggggagga aacaggagc tggacttc tctctt cctccctgc tctagctc aaggcatc cgtctgagt gaattccaac cgtttttagi tggcactgt ccctgggcat ggatagcc tctcagacc cttcggcac aaacaccca aactctct ttgaataat altcataa atgctatit cacatgatt ctctattc altcagccac tctgtgaaag cagactaac tgaataatt aagcaagaaa acaggcttag gggagtaaa taactctcc agtcaacagg ctatgtgca gcaaggctgg gactccgag cctccgctt ttctctt ggacacct gctgattccc tggctatg ccaactcca ggcccttgc ttggggccc aagggaacac ttittgaga ggaggggag cttgtcacg ttaggaaag agggagctct agttgggt cgtctatc tgggacaggg aaactccag ctctctcc gggtggag cttggggctg cctccatag cgggggtaact ctcccttc cctctct cttccattt ggccctct tacaaggcgg cgtatgaca tataccctg cattcagct gttccctgccc cttggccacc taccaccaat ctggaccaac aggaaagtg tgggttgct ttccacac cctccctg aggtgtgggg gttggggcagg gctcaccaag gggccagag aagcactaa ttctacagc ttctcttag agccttcagt ggccctgccc agtggcag acactggcag acctcttc ttagcaccac caatctga tggctggca tggccacct caatctct gctctccac ccaatctt cttgggccaat gctccggag gcatgtgct gattgtcgt gattgtccga tggctgtcaa altctagcc ctagggctca tgggtgccc ggctatggg ctgtggggg ccattgctt gctggggaat ttggggggt tgggtgtat gattgact gctccggag cctctggccc acctcagac acctgct tcaactggc tctgggggac cttggggactgg cactactt cctcttgg gtagccgagt cggcactgg cttcactgg ccttggag gttggctctg caagatggt ttgacggcca cttgtctcaa cgtctatgoc agcaltcc tcalcagc gcttggaggt gctcgtact gggtgggtggc caggtctggc gggtccagggca ccaactctc actcttgg gcccgaatag ccaactggc agtggggggc gctggctggc ttcccaag aggtactggc gctccagct gcttgggg tggaggggga ggtgtgtgt gttgctctt gggtggggc gctggctggc tgggggggctt ctaggtggcag agggtgtgt tgggtttcat gttggcttgg gggtgtcata ccaacagcta cctgtgtgt cttggctcc tggcagggc gcaacggggc cggcaggggca gcaagggtgt ggcccgctct gttggatcc tgggtgtgt ctttcttc tgggtttc ccaacatgt ggttacttc tgggtgttcc tgggtgaggt ttgactgtgt ccttgggaa gttacttca tactatcag acgtatgt tcttctac tactgtgt gtcacacaga atagctgt ccaactgt cttgtgtgt tcttggggc gggggggg caggctctgg caggcaccct cagggtatct cgggtggggc tgggtgggac gggtgggac aggtgggccc</p>

617	190742	G Protein-Coupled Receptor H7TBA62	ENSP00000201 359	<p> aaaagcaggta agcaggcggg agagcagcag caaccccccgg agagagccggc ctctacccct gctcaccaac ctggacagag agacacccgg gtagagggcg caagcagagac acactctct tcttgagatc caccaaggt aggtatccctgg agtccctgggg agagagctggc ctctggcca ggctggcagtg cctcagggga aagagctgta tcttgatcc ccaactctgg gtaggggga tggggggagggc agggggctcag atcagagctg gtaggagca agcttaagct ttatggga gtaggggaaaag aagagagatct gagaaataaac ctctgggta tccaaat gcttgacct ttatccag ttacccct agttcagat gtagaataaag gaticgtgc tccattctg ctctggcag aatactagg aanaactcc taagggtct aggtctatga atcagagggc agtgcacalc tctctgta ccacccccc acctcaaac aggggtatcc ttgcttct ccgggtatcaa ggccaaaaal ggcaagcttcc cctgctcta ccttaacatc tcaagggtga ccaaggaaac ttgctgctggc cagagggcctc agctggcaaaa gctgtagtgc cctgaagggg atggcagggtg tgggggtatg ctgggaattc cagcacctggc caggccctgg gtagggcctgg gtaggggga tggtgtct ccttaaac aggaattgaa agaaagtagag ataatgacaa gtaaaagca tgggtggggg gtagggggggg gagcagataa agaggggggg gggtggggg aacagggcgc aggtagaggg agtaaaagcag agactccaga aagtggtgt agttccctt gcccaaatg caaagccag agtatcaat ttaggtgtag agcaactgga ttacagctt taccacag aaattactt acctttgt acctactgt tctcaactg aanaagggt actaaagat taacagtgaa atactgtt agctattt ctgttgt tggtgttg ttgaagcag agtctgtc tggcccgag gctgggaggg agtggtgtag tctcagctc ctgcaacct cgtcccggg gttcaagcga ttctctgg tcaagctcc gtagtctgg gactacaggg tcccgctaac atggctggc aattttgt aattttat agagacagaa ttacacata ttggccaggc tgggtcaaa ctctgacct ctatgtat gcccaacctg gctcccaaa gtgtgtgagt tacaaggcgg agccacggca cccggctggag ctatttct tacaacctgt gtaaaatgga gtaggggga tggggggaaa taagctgtga gctgggagat gggggtaggg aacctgtc cagctgggaat ggttgtagat gcttgaggt gggggtatgt gaaagctca caaaagac tcaagaggtg gcccttaagc cctctgga agtggtgtct cagggacagg gggtctct tgggtctgt attgagagc atcaatgta aaggttagcc atcaagagga ttcttagga ggcaagccct agaaaggagg agggcagagg gaaagtaggg tagagctc MPTLNTSASP PTFWANASG GSVLSADDAP MPVKFLALRL MVALAYGLVG AIGLLGNLAV LWVLSNCARR APGPSDTFV FNLAADLGL ALTLFWAAE SALDFHWPFQ GALCKMVLTA TVLNVSASF LITALSARY WVVMAAGPG THLSLFWARI ATLAVWAAAA LVTVPTAVFG VEGEVCGVRL CLLRFPSPYV LGAYQLQRVV LAFMVPLGVI TTSYLLLLAF LQRRQRRQD SRVVARSVRI LVASFFLCWF PNHVVTWGV LVKFDLVPWN STFYTIQTYV FPVTCLASH NSCLNPVLYC LLRREPRQAL AGTRDLRLR LWPQGGGWVQ QVALKQ atgtacaagg actgcatga gtccacigga gactattt ttcttgga cggcagagggg ccatggggga tcaitgga gtccctggcc atactggga tgggtgtcac aattctgta ctcttagcat tcttctct catgggaaag atccaagact gcaagccagtg gaaagtctc occaccagc tctcttct cctgaggtc ctggggctct tgggagctgc ttggcttc atcatgagc tcaatcaaa aacggccccc gtagctact ttctttgg ggtttctt ttcttctt tctatgct cttagctcat gctccaatc tagtgaagct ggttcggggg ttgtctct tctctggag gaaattctg tgaattgta ttgttgtag tgggtgcaa atcattatg ccaatgagta tgtagcttc atcagacaa gaggtagat gtttgat atgacaccc tggcaagctt tgggtacttt gttgtactcc tgggtactg cctctctg atggccctca catctctg tccaagggc acctctg gcccgtgtag gaaatgggag cagcatggga gggtcatctt tatcatg ctcttcca tcatctg ggtgtgtg atctcatg tcttagagg caacccgag ttccagcgac agcccccag ggagagaccc gttgtctgca ttgtcttgg taccacgca tgggttttcc tgggtctgta catgtctct gagctctgca ttctacag atctgttaga caggagggcc cttacaagg caatggcgc cccgtcacag cctaccaaa cagcttccaa gtagagaaac agtagctctc cagagccgga gtagagggga gtagtaggga gtagtaggca ttaactcat atggtactoc catcagccg cagactgtg atccacaca agaggtttc atccacagg cttaaactaag cccccagcaa </p>	P	Homo sapiens
618	190743	G Protein-Coupled Receptor GPCR5D	NM_018654	<p> aaaagcaggta agcaggcggg agagcagcag caaccccccgg agagagccggc ctctacccct gctcaccaac ctggacagag agacacccgg gtagagggcg caagcagagac acactctct tcttgagatc caccaaggt aggtatccctgg agtccctgggg agagagctggc ctctggcca ggctggcagtg cctcagggga aagagctgta tcttgatcc ccaactctgg gtaggggga tggggggagggc agggggctcag atcagagctg gtaggagca agcttaagct ttatggga gtaggggaaaag aagagagatct gagaaataaac ctctgggta tccaaat gcttgacct ttatccag ttacccct agttcagat gtagaataaag gaticgtgc tccattctg ctctggcag aatactagg aanaactcc taagggtct aggtctatga atcagagggc agtgcacalc tctctgta ccacccccc acctcaaac aggggtatcc ttgcttct ccgggtatcaa ggccaaaaal ggcaagcttcc cctgctcta ccttaacatc tcaagggtga ccaaggaaac ttgctgctggc cagagggcctc agctggcaaaa gctgtagtgc cctgaagggg atggcagggtg tgggggtatg ctgggaattc cagcacctggc caggccctgg gtagggcctgg gtaggggga tggtgtct ccttaaac aggaattgaa agaaagtagag ataatgacaa gtaaaagca tgggtggggg gtagggggggg gagcagataa agaggggggg gggtggggg aacagggcgc aggtagaggg agtaaaagcag agactccaga aagtggtgt agttccctt gcccaaatg caaagccag agtatcaat ttaggtgtag agcaactgga ttacagctt taccacag aaattactt acctttgt acctactgt tctcaactg aanaagggt actaaagat taacagtgaa atactgtt agctattt ctgttgt tggtgttg ttgaagcag agtctgtc tggcccgag gctgggaggg agtggtgtag tctcagctc ctgcaacct cgtcccggg gttcaagcga ttctctgg tcaagctcc gtagtctgg gactacaggg tcccgctaac atggctggc aattttgt aattttat agagacagaa ttacacata ttggccaggc tgggtcaaa ctctgacct ctatgtat gcccaacctg gctcccaaa gtgtgtgagt tacaaggcgg agccacggca cccggctggag ctatttct tacaacctgt gtaaaatgga gtaggggga tggggggaaa taagctgtga gctgggagat gggggtaggg aacctgtc cagctgggaat ggttgtagat gcttgaggt gggggtatgt gaaagctca caaaagac tcaagaggtg gcccttaagc cctctgga agtggtgtct cagggacagg gggtctct tgggtctgt attgagagc atcaatgta aaggttagcc atcaagagga ttcttagga ggcaagccct agaaaggagg agggcagagg gaaagtaggg tagagctc MPTLNTSASP PTFWANASG GSVLSADDAP MPVKFLALRL MVALAYGLVG AIGLLGNLAV LWVLSNCARR APGPSDTFV FNLAADLGL ALTLFWAAE SALDFHWPFQ GALCKMVLTA TVLNVSASF LITALSARY WVVMAAGPG THLSLFWARI ATLAVWAAAA LVTVPTAVFG VEGEVCGVRL CLLRFPSPYV LGAYQLQRVV LAFMVPLGVI TTSYLLLLAF LQRRQRRQD SRVVARSVRI LVASFFLCWF PNHVVTWGV LVKFDLVPWN STFYTIQTYV FPVTCLASH NSCLNPVLYC LLRREPRQAL AGTRDLRLR LWPQGGGWVQ QVALKQ atgtacaagg actgcatga gtccacigga gactattt ttcttgga cggcagagggg ccatggggga tcaitgga gtccctggcc atactggga tgggtgtcac aattctgta ctcttagcat tcttctct catgggaaag atccaagact gcaagccagtg gaaagtctc occaccagc tctcttct cctgaggtc ctggggctct tgggagctgc ttggcttc atcatgagc tcaatcaaa aacggccccc gtagctact ttctttgg ggtttctt ttcttctt tctatgct cttagctcat gctccaatc tagtgaagct ggttcggggg ttgtctct tctctggag gaaattctg tgaattgta ttgttgtag tgggtgcaa atcattatg ccaatgagta tgtagcttc atcagacaa gaggtagat gtttgat atgacaccc tggcaagctt tgggtacttt gttgtactcc tgggtactg cctctctg atggccctca catctctg tccaagggc acctctg gcccgtgtag gaaatgggag cagcatggga gggtcatctt tatcatg ctcttcca tcatctg ggtgtgtg atctcatg tcttagagg caacccgag ttccagcgac agcccccag ggagagaccc gttgtctgca ttgtcttgg taccacgca tgggttttcc tgggtctgta catgtctct gagctctgca ttctacag atctgttaga caggagggcc cttacaagg caatggcgc cccgtcacag cctaccaaa cagcttccaa gtagagaaac agtagctctc cagagccgga gtagagggga gtagtaggga gtagtaggca ttaactcat atggtactoc catcagccg cagactgtg atccacaca agaggtttc atccacagg cttaaactaag cccccagcaa </p>	A	Homo sapiens

619	190743	G Protein- Coupled Receptor GPCR5D	NP_061124.1	gatcaggag gagataaa MYKDCIESTG DYFLLCD AEG PWGII LESLA ILGIVVTILL LLAFLFLMRK IQDCSQWNVL PTQLFLLSV LGLFGLAF AF IELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLVRG CVSFSWTTIL CIAIGCSLLQ IIAITEYVTL IMTRGMFMVN MTPCQLNVDF VVLLVYVFL MALTFVSKA TFCGPCENWK QHGRLLFITV LSPHVVVW ISMLLRGNPQ FQRQPQWDDP VVCIALVTNA WVFLLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEDVA LTSYGTPIQP QTVDPTECF IPQAKLSPQQ DAGGV cggggcagggtg ggggaactcc ctgaagagtg ccttggtcac agcaccttg aagacagca tgggccatgg ggaoccaaacc agagcctggc ctggggagcca ggaaggccat ccacaaagcc ttgggtgagt ggcctgggact ggcctctctt cgttccag gggcttgggc ccaggggccat gtccacaccg gctgcagacca aggcctcaac cccctgtact acaactgttg tgaacctct ggggcgtggg gcatcgtctt ggagcccggt gctggggcgg gcatgtgtac cactgttg ctacacatca tctgtgtggc cagcctccc ttgtgcagg acaccaagaa acggagccctg ctggggacc aggtatctt ccttctgggg accctgggoc tctctgct cgtgttgcc tgtgtgtga agcccgact ctacacctgt ggcctcggc gctctctt tgggtgtctg ttgccatct gtctcttg tctggcgct cactgttg cctcaact ctggccggc aagaaccacg ggcctgggg ctgggtgalt ttacgtgg ctgtctgt gacctgtga gagggtcatca tcaatacaga ggtgtgtgalt atcaccttg ttggggcag tggcgaggc ggcctcagg gcaacagcag cgcaggctgg ggcgtggcct cccctgtgc cgtgcgcaac atggacttg tcatggcact catctacgtc atgtctgtgc tgcgtgtgc ctcttgggg ggcctggcccg cctgtgtgg ccgtacaag cgtgtggcgt agcatggggt ctgtgtct ctacacag ccacctcgt ttgccaltgg ggtgtgtgga tctgtgtga tactacgg aacaagcagc acaacgtcc cacttgggtat gacccacgc tggccatgc cctggccgoc aatgcctggg cctgtctt ctctacgtc atcccgagg tctccagggt gaccagttcc agccacagagc aaagtctacca ggggggacatg taccaccc gggcggtggg ctatgagacc atcctgaag atcctgaag agcagaaggg tcaagagcatg ttctgtgtgaga acaaaggcct ttccatggat gaggccgttg cagctaaag ggcgtgtgtca ccaatcagtg ggtacatagg gcaagtcttg accagtgt accagccac tgaatggcc ctgatgcaca aggtcgtc cgaaggaggt tgaacatca tctccacag ggcacccgac aacaggcagg tgaatggcag tgcacactg accctgcggc ctgaagacat gtactggcc cagcgtggc gaggagaggc accgcccgaag gacggcaga actctcaggt cttaagaac cctacgtgt gggagctagt cagcgtggc gaggagaggc ggggcgaatt ggggagggcc ctgaaggact ggcggcgggc aagggaact ccaaggctct cctcccttg gcaggccagc aacatgtgc ccagatctgg aaggccctcc ctctctgcca ggtgttggt ggtgtgtcag ggtgtccca cccactctc agtgtgtg ggtcgaaga gccaaccca ggcctctgc agatcact cggcggtcac actccagcca aatagtgtc tcgggggtg gctgggcag cgcctatgt tctctgaga ttctgcaac ctcaagagac ttccaggcg ctcaaggcctg gatctgtc ctgtgagg aacaagggt cctaataaat acattctgc tttaataa aaaaaaaa aaaa MGTPPEPLG ARMAHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTTFVLT ILVASLPFV QDTKKRSLG TQVFFLLGTL GLFLVFAV VKPDFSTCAS RRFLFGVLF A ICFSCLAAHV FALNFLARN HGPRGWVIFT VALLTLVEV INTEWLIIT LVRSGEGERP QGNSSAGWAV ASPCAVANMD FVMALTYVML LLLGAFGLAW PALCGRYKRW RKHGVEVLLT TATSVAIWV WIVMYTYGNK QHNSPTWDDP TLAIALAANA WAFVLFYVIP EVSQVTKSSP EQSYQGDMP TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGYD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VWD	Homo sapiens
620	190744	G Protein- Coupled Receptor GPCR5C	NM_018653	cggcgaggc agcatggggt cttgtgtc ctacacag ccacctcgt ttgccaltgg ggtgtgtgga tctgtgtga tactacgg aacaagcagc acaacgtcc cacttgggtat gacccacgc tggccatgc cctggccgoc aatgcctggg cctgtctt ctctacgtc atcccgagg tctccagggt gaccagttcc agccacagagc aaagtctacca ggggggacatg taccaccc gggcggtggg ctatgagacc atcctgaag atcctgaag agcagaaggg tcaagagcatg ttctgtgtgaga acaaaggcct ttccatggat gaggccgttg cagctaaag ggcgtgtgtca ccaatcagtg ggtacatagg gcaagtcttg accagtgt accagccac tgaatggcc ctgatgcaca aggtcgtc cgaaggaggt tgaacatca tctccacag ggcacccgac aacaggcagg tgaatggcag tgcacactg accctgcggc ctgaagacat gtactggcc cagcgtggc gaggagaggc accgcccgaag gacggcaga actctcaggt cttaagaac cctacgtgt gggagctagt cagcgtggc gaggagaggc ggggcgaatt ggggagggcc ctgaaggact ggcggcgggc aagggaact ccaaggctct cctcccttg gcaggccagc aacatgtgc ccagatctgg aaggccctcc ctctctgcca ggtgttggt ggtgtgtcag ggtgtccca cccactctc agtgtgtg ggtcgaaga gccaaccca ggcctctgc agatcact cggcggtcac actccagcca aatagtgtc tcgggggtg gctgggcag cgcctatgt tctctgaga ttctgcaac ctcaagagac ttccaggcg ctcaaggcctg gatctgtc ctgtgagg aacaagggt cctaataaat acattctgc tttaataa aaaaaaaa aaaa YNNLCDSGA WGIVLEAVAG AGIVTTFVLT ILVASLPFV QDTKKRSLG TQVFFLLGTL GLFLVFAV VKPDFSTCAS RRFLFGVLF A ICFSCLAAHV FALNFLARN HGPRGWVIFT VALLTLVEV INTEWLIIT LVRSGEGERP QGNSSAGWAV ASPCAVANMD FVMALTYVML LLLGAFGLAW PALCGRYKRW RKHGVEVLLT TATSVAIWV WIVMYTYGNK QHNSPTWDDP TLAIALAANA WAFVLFYVIP EVSQVTKSSP EQSYQGDMP TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGYD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VWD	Homo sapiens
621	190744	G Protein- Coupled Receptor GPCR5C	NP_061123.2	gatcaggag gagataaa MYKDCIESTG DYFLLCD AEG PWGII LESLA ILGIVVTILL LLAFLFLMRK IQDCSQWNVL PTQLFLLSV LGLFGLAF AF IELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLVRG CVSFSWTTIL CIAIGCSLLQ IIAITEYVTL IMTRGMFMVN MTPCQLNVDF VVLLVYVFL MALTFVSKA TFCGPCENWK QHGRLLFITV LSPHVVVW ISMLLRGNPQ FQRQPQWDDP VVCIALVTNA WVFLLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEDVA LTSYGTPIQP QTVDPTECF IPQAKLSPQQ DAGGV cggggcagggtg ggggaactcc ctgaagagtg ccttggtcac agcaccttg aagacagca tgggccatgg ggaoccaaacc agagcctggc ctggggagcca ggaaggccat ccacaaagcc ttgggtgagt ggcctgggact ggcctctctt cgttccag gggcttgggc ccaggggccat gtccacaccg gctgcagacca aggcctcaac cccctgtact acaactgttg tgaacctct ggggcgtggg gcatcgtctt ggagcccggt gctggggcgg gcatgtgtac cactgttg ctacacatca tctgtgtggc cagcctccc ttgtgcagg acaccaagaa acggagccctg ctggggacc aggtatctt ccttctgggg accctgggoc tctctgct cgtgttgcc tgtgtgtga agcccgact ctacacctgt ggcctcggc gctctctt tgggtgtctg ttgccatct gtctcttg tctggcgct cactgttg cctcaact ctggccggc aagaaccacg ggcctgggg ctgggtgalt ttacgtgg ctgtctgt gacctgtga gagggtcatca tcaatacaga ggtgtgtgalt atcaccttg ttggggcag tggcgaggc ggcctcagg gcaacagcag cgcaggctgg ggcgtggcct cccctgtgc cgtgcgcaac atggacttg tcatggcact catctacgtc atgtctgtgc tgcgtgtgc ctcttgggg ggcctggcccg cctgtgtgg ccgtacaag cgtgtggcgt agcatggggt cttgtgtc ctacacag ccacctcgt ttgccaltgg ggtgtgtgga tctgtgtga tactacgg aacaagcagc acaacgtcc cacttgggtat gacccacgc tggccatgc cctggccgoc aatgcctggg cctgtctt ctctacgtc atcccgagg tctccagggt gaccagttcc agccacagagc aaagtctacca ggggggacatg taccaccc gggcggtggg ctatgagacc atcctgaag atcctgaag agcagaaggg tcaagagcatg ttctgtgtgaga acaaaggcct ttccatggat gaggccgttg cagctaaag ggcgtgtgtca ccaatcagtg ggtacatagg gcaagtcttg accagtgt accagccac tgaatggcc ctgatgcaca aggtcgtc cgaaggaggt tgaacatca tctccacag ggcacccgac aacaggcagg tgaatggcag tgcacactg accctgcggc ctgaagacat gtactggcc cagcgtggc gaggagaggc accgcccgaag gacggcaga actctcaggt cttaagaac cctacgtgt gggagctagt cagcgtggc gaggagaggc ggggcgaatt ggggagggcc ctgaaggact ggcggcgggc aagggaact ccaaggctct cctcccttg gcaggccagc aacatgtgc ccagatctgg aaggccctcc ctctctgcca ggtgttggt ggtgtgtcag ggtgtccca cccactctc agtgtgtg ggtcgaaga gccaaccca ggcctctgc agatcact cggcggtcac actccagcca aatagtgtc tcgggggtg gctgggcag cgcctatgt tctctgaga ttctgcaac ctcaagagac ttccaggcg ctcaaggcctg gatctgtc ctgtgagg aacaagggt cctaataaat acattctgc tttaataa aaaaaaaa aaaa MGTPPEPLG ARMAHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTTFVLT ILVASLPFV QDTKKRSLG TQVFFLLGTL GLFLVFAV VKPDFSTCAS RRFLFGVLF A ICFSCLAAHV FALNFLARN HGPRGWVIFT VALLTLVEV INTEWLIIT LVRSGEGERP QGNSSAGWAV ASPCAVANMD FVMALTYVML LLLGAFGLAW PALCGRYKRW RKHGVEVLLT TATSVAIWV WIVMYTYGNK QHNSPTWDDP TLAIALAANA WAFVLFYVIP EVSQVTKSSP EQSYQGDMP TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYQPTMALM HKVPSEGYD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VWD	Homo sapiens

[illegible]

624	190748	GPCR Ls190748	AX147756	A	Homo sapiens	<p>gtctgggggt ggaggatgct ggagacagggg tcaattgctt ggaagcaagtg ctctcalccc cctagtctct gctgaltag ttggggctcc agagtgggga ggagaaaggg acttgaagac ttcttgccc ttaccgtctt agccatcaaa ctctgagctg gaaatagta cgtatgtaaca ggaacttccc ctgggctctt ctggggccaca attctggcc gaaagaaagaa gaaagaaagaa ggtgagaccc ttcttactc claggggccat ggtgtagagc tgcagtggca cctctctg ccaataggca tagatgagtg ggtgagcag gtaggtggccc agccggagga gccacagga cgttccagc actaggtaga ggtgacact ctggcaggcc acctgacaaa tgcagtgat aaggaaggggg gttccaggaia ggaagaaagt ccaatgaga acapacacag tacggagagc ttgaagtcg ctgggagtcg gttgggagtcg ataacctcca gccatggctt cctctctg cactcttga atctctggc tgtgcatgga ggcacatctg agcatgtgc agtaagaa gacaaagag gacaaagag gtaagagagcc aacgcagagaa agggcagga cgaagtgagg gtaagaa gcaagaaagc tgcagtggcc ttgtagggca gttgctggga acatgggag tccgagtggg aggaagocaa tgaaggaaga cactaacac agccgggcaa tgcagggccc ggccacgaac ccatctaga tctcaaga ggcgaagggg tgcgtatgg caaggtacct gtaagagtg atcagatga ccgtgaagagc agaggcagct ggcgaagaa gtaacatgc catccgaggg ctgcagaggg tctctgtt gggccagaa ggtctggaga gctgtctgt ggttagggcca gtagtagcca caacatcaa ggtgtcagcc acagccagat tcaaggtgaa gcaagagactg acacatcat tcttgtag caacagcagc acagccacag ccataggtt gttatagga algtatgagg agggcagggac agcaagagat actcaaat agaaagatga ttcatgtt cgaagtgga ggaactact taacaggga tg</p> <p>MESSFSFGVI LAVLASLIA TNTLVAVAVL LHKNDGVS LCFTLNLAVA DTLGVAISG LLTDQLSSPS RPTQKTLCSL RMAFVTSSAA ASVLTVMLIT FDRYLAIKQP FRYLKIMSGF VAGACIAGLW LVSYLIGFLP LGIPMFQOTA YKQCQSFVAV FHPHFVLTLS CVGFFPAMLL FVFYCDMLK IASMSQQIR KMEHAGAMAG GYRSPRTPSD FKALRTVSVL IGSFALSWTP FLITGIVQA CQECHLYLVL ERYLWLLGVG NSLLNPLIYA YWQKEVRLQL YHMLGVKKV LTSFLLLSA RNCGERPRE SSCHIVTSS SEFDG</p>
625	190748	GPCR Ls190748	CAC39548.1	P	Homo sapiens	<p>algggcaact ccaagggct gaaagocaa gaaagtcag gctcgttggg gttgatctg gcaagctgag tggaggtggg ggcactgtg ggcacagggc gctcgttgg gttggtctg ggcacagggc gacttgaggga cggctcttac ctggcggcaac tgtcgtctg ggaactgtg ggcggcggct ccatcagcc gctggggctg ctggccggcac cggccggccgg gctggggccg ggtgcttgg gcccgggccc atggccggcc gctcgttcc tctcggccg tctcggccg gccgtggcag cggccgttgg ccgacttgg ctggcagct accgctcat cgttgacac cgtggcagc gtcggcgccg gccgcttgg ctgtgtctca ccggcggtg ggcggcggt ggaactgttgg ggcgtcttc cctgtctggc ccggcgccg caacggccc tgcctctgt cgtgtctgg tctgtctgg ggcctcggg ccttccggc cgtctggg cctgtggcc ttgcgtctg ccggccctct gctgtcgg gccacggcg gcatctgt ggtggcggt cgtgtctggcc tgaagggccc accggccggcg cgtgggtccc gactccgctc ggaactctg gtagccggc ttccatctt gccggcgctt cggcctggcc tggccggggg caagggggcc ctggggccag cgtgtgggt gggaactt gcaagctgtt ggtgtgcta tggcttggcg tgcctggcg ccgcaagcg ggcggcgga gccgaagcg cgtcacctg ggtcgcttac tggccttgg cggctacac cttcgttac ggggtgtg agcgccctt ggcgttggca ctggggccg tctcgtggc tgcactgtt ggaactgtg gggcctggc tccgcaagcc tggcaccgc gggcactt gcaagctc caagagaccc cagagggcc tgcgttagg cctttagg ctccagaaca gaccccgag ttggcagga ggcggagcc cgtataccag gggccactg agagtctt cttcga</p> <p>MANSTGLNAS EVAGSLGL AAVVEVALL GNGALLVVVL RTPGLRDALY LAHLCVVDLL AAASIMPLGL LAAPPGLGR VRLGPAPCRA ARFLSAALLP ACTLGVAALG LARYRLIVHP LRPGRPPV LVLTA VWAAA GLLGALLG PPPAPPAPA RCSVLAGGLG PFRPLWALLA FALPALLLLG AYGGFVVAR</p>
626	190749	G Protein-Coupled Receptor GPR62	AF317653	A	Homo sapiens	
627	190749	G Protein-Coupled Receptor GPR62	AAK12638.1	P	Homo sapiens	

628	190774	Histamine H4 Receptor	NM_021624	<p>RAALRPPRPA RGSRLRSDSL DSRLSILPPL RPRLPGGKAA LAPALAVGQF AACWLPYGCA CLAPAAARAE AEAATVWVAY SAFAAHPLY GLLQRPVRLA LGRLSRRALP GPVRACTPQA WHPRALLQCL QRPEGPVAVG PSEAPEQTPE LAGRSPAYQ GPPESSLS</p> <p>ggagagaciac acattttagg tatgtgatta gaaacacatc ttgtcagaat tgcctggctg gattaatg ctaattgac cttctcalt attttagtg atgcagaata ctatagacac aatcaattta tcaataagca ctgggtgtac tttagctat ttatgtctt tagttagcttt tgcataalg ctaggaaalg cttaggtcttt tttagcttt ttgtgttgaca aaaaacttag acatcgaagt agttatttt ttcttaact ggccatctct gactcttg ttgggtgtgat ctccattct ttgtacatcc ctacacgtct gttcgaatgg gattttggaa agggaaatctg tattttgg ctacactg aciatctgt atgtacagca tctgtatata acattgtct catcagatcat gatcgaatcc tgcagctc aaatgtcttg tctatagaa ctacacatc ttgggtcttg aagatttgta ctctgaltgg ggccgtttgg gttcgtggcc tcttagtgaa ttggccaatg attctagt ctgggtctg gaaaggatgaa gtttagtgaaat gttgaacctg atttttgg gaaatgtata tcttgccat cacatcatic ttggaaatg tgaatccagt catcttagic gctatttca acatgaaat ttatggagc ctgttggaagc gttgaltatc cagttagtgcc caaaggccatc ctggactgac tgcctgtctt tcaacatct gttgacacac attacagagg agactatct caaaggagatc tcttttga tgcagaagag ttccgtcacc ctctacata gagaagacaga ggaagaaagag tagtctcag ttctcaca gaaccaagat gaaagcaat acattgctt ocaaaatggg ttctcttcc caatcagat ctgttagctct tccacaaagg gaaatgttg aactgttag agccagggaga ttggccaagt cacttgccat tctcttaggg ttgttgctg ttgttgctggcc tccatttct ctgtcaca ttgtcttct atttttcc tcaagaacag gttcctaact agtttggtat agaaatgcat ttgtgttca gttgttcaat tctttgtca atctcttt gtaatcag ttgtcagaag gtttcaaaa gtttcttg aaaaattt gtaataaaaa gcaacctcta ocatcacaac acagtgctc agtatctt ttgaagacaa ttctacat ctgttaaat ttgtctcaat ctacataaa tgaatcagtt ctgcccitta tcttgccct ttacttacc caacagatc gcaatttga gttcaatggta aattactcca gttgaataata gcaattataat atgactgat aaatatttg taaacttgta gttcaatag ttactatc ttcttagtcc tccacttct ctgtcttt agacttcaat ttcaatgtga ttacaaaaat ccagttttgt ttcttcta ttgtccatgc ataatcagat cttaagtgaa ttctcttt ttatattat gtttaatagaa acttatccag ttgaaatc attccataa gcatgtcata gttgaaagaa ctctctggct gggtactggcc aactctgtc tgaatcagttg gttgggttgaa gttgggttgaa gttgggttgaa gttgggttgaa gttgggttgaa gttgggttgaa gttgggttgaa tccagatttt atattcttaa tccagttgaa gaaagaaagcgt tagttgtggga gaaagaaagcgt tagttgtggga gaaagaaagcgt aggttctcag ttgaatttt ttggagggcc ttgttggtcag aggtatcagaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa tgaagttatg gttgttccca ttcttctg ttcttttt ctacttcca catcagttc ttgttgaa gttggttgaa gttggttgaa gttggttgaa tgaagttatg ttgaagagact gcaattgaa actagataga cctgtgtatc agttacttga ctatgtatg tcaatattia ttattttaa aaattttat ttgttgcccg gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa aggttcaagttg atcgaagaa tcttggttcca catgttgaa cccatctgt actaaataac aaacaaagttg ctgtgttggtg cgttggtcag ctgttggttcc aggttctgag gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa ccttggttca gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gtaattgcaat catggttcc gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa actacagttg ctgttggttca ataaataat ttatttga gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa aatatttt taaataaat tttaaaag ttgtttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa atcactgcaa ccttggttcc gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa cacttggtt gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa aaagacagttg atttggtt ttgttggtt ttgttggtt ttgttggtt ttgttggtt ttgttggtt ttgttggtt ttgttggtt ttgttggtt ttgttggtt attaggttcaaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa taattgtt gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa gttggttgaa</p>	A	Homo sapiens
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629	190774	Histamine H4 Receptor	NP_067637.2	<p>acatttatt agtttggtta tgtttgtcc tttaaaaca ttctttttg agatgggggt ctgtctctgt tgcacacgca ggaagtgcagt ggcaltgctt cagctcactg cagccctgac tgcctaggct ccagcaatct tctatgta gctccacagag tagctgggac cgaggcact tgcacacag cccactaaa aatttttaa atgttgctt ttcttgaagt gtctctgctc tgtttgtc acaaaattc atttttca tagttaatt catctcog gtaagatttt atgttggtt ctttataac ttgcagttc ttacacgtt tgggtatttt calgtttt agaacttta aacctttaac ttcaaacat aaatacaag tcttttaagt acatagtg ttgaaatgt acataaigt talataact talgccttac attaagtic aataagaa atacatgtt aacattcaat aataatttta aaaaattgag aaataaactic tcaataalgc aaaaaaaaa aaaaaaaa</p>	P	Homo sapiens
630	190823	Formyl Peptide Receptor 1 (FPR1)	NM_002029	<p>MPDNTSTINL SLSTRVTTLAF FMSLVAFALM LGNALVILAF VVDKNLRHRS SYFFLNLAIS DFFVGVISIP LYPHTLFEW DFGKEICVFW LTTDYLLCTA SVYNVLISY DRYLSVSNV V SYRTQHTGVL KIVTLMVA VW VLAFVNGPM ILVSEWKDE GSECEPGFFS EWWYLAITSF LEFVIPVL V AYFNMYWYS LWKRDHLSRC QSHPLTAVS SNICGHSFRG RLSSRRSLA STEVPASFHS ERQRRKSSLM FSSRTKMNSN TIASKMGFS QSDSVALHQR EHVELLRARR LAKSLAILLG VFAVCWAPYS LFTIVLSFYS SATGPKSVWY RIAFWLQWFN SFVNPLLYPL CHKRFQKAF L KFCIKKQPL PSQHSRSVSS ccagactta gaactacca gagcaagacc acagctggg aacagtgag gagcagacaa gatggagaca aattcctc tcccacgaa calctcigga gggacacctg ctgactcgc tggctatcic ttccctgata tcatactia tctgtaatt gcagtcacct ttgtcctgg ggtcctggg aacggcttg tgaatcgggt ggcctggatic cggatgacac acacagtcac cacatcagt tactgaac tggcctggg tgaatcgt ttacotcca ctggcatt ctatcgtc aggaaggaca tgggagaca ttgctttc ggctggctc tgtgcaatt cgtttacc atagtgagaca tcaactgt cggaaagtic ttctgtatg cctcatgic tctggaccg tgtgttgct tctgcatcc agctggacc cagaacacc gcaocggag cctggocaa gagggtatca tggggccctg gggtatggct ctgctctca catggcagt tatcctgt gtaactacag taactggtaa aacgggggaca gtagctgca cttttaact ttgcccctgg accaacgacc claaagagag palaaalg gctgtgoca tgtgacgtt gtagggcalt atocgttca tcaitggct cagcgaacc atgtccatcg ttgctgtag ttatggct atgocacca agatocacca gcaaggcttg ataaagcca gtcgtcccti acggctcct ggcatgaca aagaaatgg tatgtcagtg gatgtgaca gtagccctgg cttctcaac gaatocgiga gttatgcaa ggcattgaca aagaaatgg tatgtcagtg gatgtgaca gtagccctgg cttctcaac agctgcctca acccatgt ctatgctc atgggacagg acttcggga gaggctgalt cagccctc cggcagct ggaggggoc ctgacggagg actaaccca aacagtgac acagctacca atttactt acccttgcga gagggtgagt tacaggcaaa gtagggagg agctggggga cacttcgag ctccagctc cagctcgc ttaccttgag ttaggctgag cacaggcatt tctgctat ttaggatta cccactcalt agaaaaaaa aaaaagcct ttgtgtccc tgaattggg agaataaaca gataagatt 1</p>	A	Homo sapiens
631	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	<p>METNSSLPTN ISGTPAVSA GYLFLDIITY LVFAVTFVLG VLGNCLVWV AGFRMTHVT TISYLNLA VA DFCFTSTLPF FMVRKAMGGH WPFGWFLCKF VFTVDINLF GSVELIALA LDRVCVLP HP VWTQNHRTVS LAKKVIIPW VMALLLTPV IIRVTTPGK TGTVACTFNF SPWTNDPKER INVAVAMLT RGIRFIIG SAPMSIVA VS YGLIATKIHK QGLIKSSRPL RVLSFVAAAF FLCWSPYQVV ALIA TVRRE LLOQMYKEIG IAVD VTSALA FFNSCLNPML YVFMGQDFRE RLIHALPASL ERALTEDSTQ TSDTATNSTL PSAEVELQAK alggaacca actctccat tctctgaat gaaactgagg aggtgtccc tggacctgct ggccacaccg ttctgtgat ctctcatg ctagtccag gtagtcacct tgtctggg gttctgggca atgggctgt gatctggggt gctgggattcc ggaagacag</p>	P	Homo sapiens
632	190824	Formyl Peptide Receptor-like 2	NM_002030		A	Homo sapiens

635	190948	EMR2 Hormone Receptor	NP_038475.1	<p>agcaatcac tgcattcga gctctgctc tgcctcttc tggccacat cctctcttc tggcaatg atcaaacagg acacaaggc cgtgctcca tcatccogg taccctgac tatctacc tggccacat cacttgatg ctgctggagg cctgtacct ctctcact gcaagggaac tgaagggtg caacttaca agcatcaaca gattatgaa gaagctcatg ttccctggg gctacggagt cccagctgctg acagtgggca ttctggcag ctcaggcct cactttatg gaacacttc cctgctggg ctcaaacag aaaaaggagt tatatggggc ttcttgagg cctctggcg cactctct tggcaatgag ttctttct ggtgactct tggatttga aaaaagact ctctccctc aatagtgag tgcacacct ccggaaacaa aggatgctgg catitaaag gacagctcag ctgttcatc tggctggcac gttggtgctg ggtggtgctc aggtgggctc ggtgctggc gctatggct acccttcac catcatcac agcctggcagg gttgttcat ctctgggtg tactggctc tcaagccagca ggtccgggag caataggga aatgtocaa agggatcagg aatgtaaaa ctgattctga gatgcacaca ctctcagca gtgtaaggc tgcacctc aaacccagca cgttaacta gaaaatct ctgaataaga tctccctc ttgccgggtg aaaaatgaa caatcttga gcatctaga ggggaagaa aagacttgt tctgtgt tcaagaat caccatgta gcaatgaa ggaattatg gaaggcgtc ttggcattca atcttcag aaacgggaaa tcttcagc cctgcaatg gctcalcaa ctctcagat atggcggcc agctgggct catacttg caatctga gcaaatat tatgaagct tgaaggtta agactctt cacagctc ctctctaca aagactctc caatctaa aatgaagcag gaaaacagc ctgaagagc ttatccag acaacatctg aaaggactag aatgtcaca ccaagatctg gattcttaa tttttgt tggttgt tctctag ttctagggt ttgattt agtatgta aaaaatgta ttactcac atagatcag agagacacagg ctctgctt catggagct ttaggggaaa atgaaggc tcttgagct agattgact cagaagcga aattctaga aatcagggt ctactgctg gcaattgag tataaactat ttataaaca cgtctctt tcatctac</p>	P	Homo sapiens
636	190955	Leukotriene B4 Receptor BLT1	NM_000752	<p>MGGRVFLVFL AFCVWLTLPG AETQDSRGCA RWCPODSSCV NATACRCNPQ FSSFSEITT PMETCDDINE CATLSKVSCG KFSDCWNTEG SYDCVCSPGY EPVSGAKTFK NESENTQDV DECOQNPRLC KSYGTCVNLT GSYTCQCLPG FKLKPEDPKL CTDVNECTSG QNPCHSSTHC LNNVGSYQCR CRPGWQPIPG SPNPNNTVC EDVDECSGQ HQCDSSIVCF NTVGSYSCRC RPGWKPRHGI PNNQKDTVCE DMTFTSTWTPP PGVHSQTLR FFDK VQDLGR DYKPGLANNT IQSILQALDE LLEAPGDLET LPRLQHCVA SHLLDGLDV LRGLSKNLSN GLLNFSYPAG TELSLEVQKQ VDRSVTLRQN QAVMQLDWNQ AQKSGDPGPS VVGLVSIPGM GKLLAEAPLV LEPEKQMLLH ETHQGLLQDG SPILLSDVIS AFLSNNDTQN LSPVTFTHS HRSVPRQKV LCVFWEHGQN GCGHWATTGC STIGTRDTST ICRCTHLSF AVLMAHYDVQ EEDPVLTVIT YMGLSVSLLC LLLAALJFL CKAIONTSTS LHLQLSLCLF LAHLFLVAL DQTGHKVLCS IAGTLHYLY LATFTWMLLE ALYFLTARN LTVVNYSSIN RFMKKLMFPV GYGVPATVA ISAA SRPHLY GTPSRCWLQP EKGFIVGFLG PVCAIFSVNL VLFLVTL WIL KNRLSSLNSE VSTLRNTRML AFKATAQLFL LGCTWCLGIL QVGPAARVMA YLFTIINSLQ GVFIPLVYCL LSQQVREQYG KWSKGIRKLL TESEMHHTLSS SAKADTSKPS TVN</p> <p>gcaattct cactccagt ggggcagga agccctctc gaactctgac ttcaattct gctgcggtt ctgcacatt ttctatc ctctgacag tgcaggtca tctctctt ggtttctc caagcagaac aatgggggc tctgaaagg taaaggacc tcaaggcca caataact ttgcatct cctgagaagt gagaattgaa agggagagcag gaaggccat ggtcagatg aagggaaggac ttttttt ttttttt ttgtgaaat ggaatcgc tctgctc aggtggagt gcaattggc gactcagct cactcagcc tcaactct ggttcacat gattctctc cctcagctc ccaagctg gactacag gcaatgaca</p>	A	Homo sapiens

637	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	<p>ctacaccag ctacttttg tatittttagt agagagacgggg ttacacalg ttggccagggc tggctcacaac ctgctacaac caagtgatct gctccctca gctcccaaaa gttgttgggag taccgggtagt aaccacaca accgtccagag aatttttagt tttagcttt tgcaggagag ttcaaggagaaa gtagagacattc cttgtccag gaaacgggga agggggaccat ttctgcatlg ctgggttcc cttgtggcag gggtgggcatlg agggcatcact gttctgtc cttcactct gctctcaltg ctacgtctgc cagctcgggoc tcaactttgt gttctaaag tggaaatgaa tagttagctgt gtagagagtag gtagaaatgt cttgtccatgt cttgtccag atcataatc cagctcagc agggtaacca catgggcaag cacaaagtagt gttgtgggg aagaggggag taattggcat tctgtgtgat accaaaggagaa ccattttgtat ttgtgtctt accaaaagaa atggagaaat gttgtgacct aatggaaacca gttcccttaa gtaaggggag gaaagggggggt gctggagagat gggccctctc ccacacct gatacatgt tgaactgag ccaaggagag agttgtgtccc ccttggcat ttactgt gttcccttta aatcatgag ttactaac caaocaga ccaaggacct agtcaagct ccaactaca cttctatta atctaaac aagggagaaac aaacacaaaa agatacagc attgttagct ccaatctgag ccaatttccc ttctgtgt accatactc cttctctat agataccat tcaacttt gticaattt ccagctcaga cttgcatct gtaggccaac ccagcctct cactccac accctctt cttctcac tgtctctcc tggctcttc tcatctggoc ccaacttaa gtaggtctctc tggctctgg gttccctgg aaaaagagat atccccc ctagtgaagg gtagggtag ggtgtttagc ggtgtttagc ccaactca gtagagagc ttctctgt cttctctt gttgtactt cttctgtgt gattagcaa acagcaacta gacttggggc caggcccttg gtagagagc agatccagag ataggtaca ccaacttgg ctagccctgg gattggcatc agttccaac cagttctcgc caaagctgt aagttctccc gacgggcatg aacatacat cttctgcagc acccccctc ctgggttag agttcatctc tctgtgtgt atcatctgc ttgtcagtg gctgggtctgg ggggttccc gcaacagctt tgggtgtgg agtatctga aagggtagc gaaagctct gtcatggccc tgaatgtgt gaaatggoc ctgggocggac tggccgtat gttcatgtt ccttttcc ttacttct gggccaaaggc acctggagtt ttggactggc tgggtggc cttgtcact atgtctggc agtcaagcag taccggcagc tctgtctat cacggccalg agtctaagc gttcactggc gttgtggccc cctttgtgt cccaggaagct acggccaag gctgaaggccc ggcgggggt gtaggggcatc tgggtgtgt cttctgtgt gggccaccc gttctgtgt accgtcgt accggcag agttggcctgg aaaaagaa tgaagctgt cttcccggc taocccagc aaggggacag ggtcttccat ctacttcc aggtgtgtcac ggggtctctg ctggccttcc tgggtgtgt gggccagctac tgggacatag ggggtgtgt acagggccc ggtcttccg ggcagccccc caccggccc cttgtgtgt tcatcatct gacttggc gttcttggc tggccaca cttgtgtgaac ctgggttagg cggggcccgc gctggcccgc caggcccgc gttgtgggag cttgtgtggc cgggttaggoc tggcccga cgtgtctatc gcatctgt tcttagagc cagctgtgaac cccgtgtgt acgtgtgtgc cggcggggc cgtgtgtgt cggcgggggt ggggtctgt gccaagctgc tgggagggcac ggtgttccgag ggtgtccagc cggcggggc gggcagcctg ggccagagcc ctagggagc cccggcgt cttggagccc gttccctga gtagctcat gttccagcc cttcaagtt aaacgaactg aactagggct gttgtggaagaa gggcgcat tttcttggca gaaagctagc tctggagccag ttcatct gtagggagc caggggggc gtagggggc agggggcggc gtagggggc gtagggggc gtagggggc gtagggggc gtaggggagaa tggaggaagaa tggagggagc gttcagagc gttcagagc gttcagagc gttcagagc gttcagagc ctgaagctg aa</p>	P	Homo sapiens
638	191039	Trace Amine	AF380185	<p>MNTSSAAPP SLGVEFISLL AILLSVALA VGLPGNSFVV WSLKRMQKR SVTALMVLNL ALADLAVLLT APFLHFLAQ GTWSFGLAG RLCHYVCGVS MYASVLLTA MSDDRSLA VA RPFVSKLRT KAMARRVLG IWVLSFLAT PVLAYRTVP WKTNMSLCFP RYPSEGHRAF HLFEAVTGF LLPFLAVVAS YSDIGRRLLQA RFRRSRRTG RL VVILTF AFWLPYHV NLAAGRALA GQAAGLGVG KRLSLARNVL IALAFSSV NPVLYACAGG GLRSAGVGF VAKLLEGTGS EASSTRRGS LGQTARSGPA ALEPGPESL TASSPLKNE LN atgatgctt ttggccaa tataataat atttctgtg tgaaaaaa cttgtcaaat gtagtccggt cttccctgta cagttaatg</p>	A	Homo

639	191039	Trace Amine Receptor 1 (TA1)	AAK71236.1	<p>g'tgctcalaa ttctgaccac actcgttggc aatctgtag tagttgttc tatatcacac ttcaaacac ttatalaccoc aacaaattgg ctcattatt ccattggccac tggtagctt cttctggggg gtcgtgctat gcttaccagat algctgtagat ctgctgtaga ctgttggat tttggtagag ttctctgtaa aattcacaca agcacccgaca ttatgcttag ctacgctcc atttccatt tgccttcat ctccattgac cgtactatg ctgtgtgtgta tccactgaga lalaaagcca agatgaatat ctgtgttatt tgggttatt ttctcattag ttgtagtgic cctgctgtt ttgatttgg aatgattct ctggtagctaa acttcaagg cgttgaagag alatatata aacattgca ctgcaagaga gg'tgctctg ttcttttag caaatalct ggggttagta cttttatg actatagat ctatattgt alg'tgctat tacaatat alctatcgc taaagaacag gcaagattaa ttatgtag caatcagag ctccaaattg gattggaaat gaaaaatgga attcacaaa gcaaaagaaag gaaagcttg gaaagcttg ggaattgatt gggagtttct ctatatgct gg'tgctctt ctttatctg acagttag accctttt tcatatatt attacaccta ctggaatga tgg'ttggat tgg'ttggct acttgaacac tacatttatt ccaatgtt algtattt ctatcttgg ttatgaag cactgaagat gattgctt ggttaaat tcaaaaaa ttatccagg tgaatat ttgggaat gattcatag</p> <p>MMPFCHNIIN ISCVKNNWSN DVRASLYSLM VLJIL.TTLVG NLIVVSISH FKQLHTPTNW LIHSMATVDF LLGCLVMPYS MVRSAEHCWY FGEVFCKIHT STDIMLSSAS IFHLSFISID RYVAVCDPLR YKAKMNILVI CVMIFISWSV PAVFAFGMIF LELNFKGAEE IYKVVHCRG GCSVFFSKIS GVLTFMTSFY IPGSIMLCVY YRYLIAKEQ ARLJSDANQK LQIGLEMKNG ISQSKERKAV KTLGIVMGVF LICWCPFFIC TVMDPFLHYI IPPTLNDVLI WFGYLNSTFN PMVYAFFYPW FRKALKMMLF GKIFQKDSR CKLFLELSS</p>	P	Homo sapiens
640	191132	G Protein- Coupled Receptor 88 (GPR88)	NM_022049	<p>gggttccaca ttacgacaca ctctgtctc ttgagcacagg g'tgctctct ctgtagctca gcttctgatt ttgacgcaa gcallctgc tgc'tgctgc ttgctgcca ccgcttggg ctggcagccc gccatttacc ttcttccagc cctgataca gcttgaagat ctccctgacg ctgctagttc ctgcccagga ccatgtgtgt gga'tgctgt tggtagtagc gggcacttgc tcttggcact gataccagct gattttctoc tgg'tgttct tggtagcagc algctgttgc ttgtagtaggta ttcttggca tccctccccc ttgtagcacccg gctaaaggtag accaaactct cctccacatc caactctcc accaacgggtt gctcgtgct gcttcttgc ttgtagtaggt gggcagtag accaaactct cctccacatc caactctcc accaacgggtt gctcgtgct gcttcttgc gtagtagtaggt ggtcgttggc gggccgggcgc altccgggtt cactctgta ttggggcctgc gccatcgggg gacgcttggc caacggcagc g'tcaltatc tctgtgtc ctccgaaag ctgcaacca ccatttggc aacggcgtgc ccggccgacct cagcgtctgc gcccttggga tggccgtagg gggcgttctgc ccaccggctc tggtagtagcc ccggcagact gggtaggggc tggtaggggc taccgctgc taccgggtt gcttcttggc ctgtagtagc ctgtgttccct cctctccac tggctgttgg ccttgaaccc ctactgtc altacccggg ccgccggcac ctacacggcg ctgtacacaga ggcggccacac gggggggcag ctggcgtctgt ccttggggcct cggccttgggc ctctgtctgc tggtagtagcc cggccgggcgc ccggccgacc ggcgaatccac taccgggcgc tggtaggggc cggcgggcgc ctggcggcaga cagcttctgc gcttgcactgc taccgtgggc tgg'tgtgcgc cgttgcgtgc agcgttgcagg gggtagtaggt gcttcaactc caacttgc accatttgc cggcgttgc gccggccggc ccggcttcc gggggccagc cagcggccgc gggcgggttgc ccggcggcac ccggcggcagc ccagcggccgc ctggcggccgc tggcggccgc gggcggcgc gggcggcgc gggcggcgc gggcggcgc gcttcttgc gcttcttgc tggcggcgc gccacgttgc tggtagtaggt tggtagtaggt ccttcttgc ccggcggcc ggtagtagtag cggcggcagc tggcgtctgt gcttgcggcc gggcggcgc tccacacgc tccacacgc tccacacgc gatttccgc gcttcttgc ctacttctgc ccggcggcgc gggcggcgc gggcggcgc gggcggcgc gggcggcgc cggcggcgc cagcggcgc tggcggcgc gggcggcgc cagcggcgc gggcggcgc gggcggcgc gggcggcgc tcccggtt ccggcggc tggcggcgc gggcggcgc ccttcttgc ccttcttgc ccttcttgc ccttcttgc ccttcttgc cggcggcgc tggcggcgc gggcggcgc ccttcttgc ccttcttgc ccttcttgc ccttcttgc ccttcttgc</p>	A	Homo sapiens

641	191132	G Protein- Coupled Receptor 88 (GPR88)	NP_071332.1	<p>gocgaagtc atttggacg gccacctgat tttaacctt tttttcttg tttagagga alcciaaagi caaaacacca gagacttgaa gaacttgcaa actggcggtt taataaacc ggtaaatia ttccacaca gtttggtt gaanaagagc tttaataig tataacctt tccacttca tgccttata tatgaagcg ctgagtgig calgaaccaa aggaataaac atgaagaag gaanaacata tgtagaaagt attttagaaa gtaacctgic tttagatg ctctctac catttgi ttgtatata ccttggggca gtagagccct aggttgcc accagtalga gttgccatta agacctcaag cctttatc ttaaaagg tttaataa gtttttca aatggagtag aatctagcc agtgaagaaa aaaaatttt tatgcctt tttttgca ctctaaagg tgaanaagg cgttgagtg ttatgtgaaa atttccagt ttgaatig atgtgcagag ccagcactgg aatttgaaa acaataaagg tgaatata tttaggtac cgtttacat ttttatagc atgcacacti gttgtaccc tcatitgta accaatttt ttgcctag aatgtgatg cagcttgaa catctgtac tgtaatggt gtaagaaga atagtccti ctgtttct tttaacatt aaaaatctc aatgcacatg atataata acataataa taccatgact gcalagctaa tatgtctgc tatgtcag tccatagtc tagaacttat tgggcatgig gtatctgaa gctataoocg ttagacaagg atatttact tcttcagac accagaagaa atggcctca atatttgaa aatgagacaca gagacacctc tggctacct gagttctcc tgcctgacc aatttatag aaagctccca gtgggacti tatctacaa gtggatcac agtcaagagc gatcaataat atgttggtc cagcaaaagc agctgtctc tttagggti taaacaagcc acagctaga aagcaacact gttttatg agttcalata tataccag acatttaaca tcaattgt atattgaa gtaggtataa taaactcagt catatatagt gaacagtta aatgggaaag tgtctaaaa catatttt gagggttc atattcact tgggttact aaatttact agaaatatt gaaatgcaa atgttgtaa atcaccttat caaatiaaaa tgggaagaaa gaaatttaa taattitaa taatcatalg (cagcattt gactacttac cacatcaaat ctgggccaac acagctcag ttaactgat aatcaggaa caaaaccagc tgccttgi gcagcgctgg gcaatttcag ccaggacatt agggacacti gttgtacatc tgaataata tgggaagtgg gacatgttaa ggaanaacaa tatgtcatc accaacaac agctgtcatt ttattatct atcccttgg tgcagcacc atttctct tactaacagt ttcatcgt cacatttcc ttgattcaaa tataaagt cagaataaaa aaaaaaaa aaaaaaaa aaaaaa</p>	P	Homo sapiens
642	191168	P2Y12 Platelet ADP Receptor	NM_022788	<p>MTNSSSTSTS STTGSLLL CEEESWAGR RIPvSLLYSG LAIGGTLANG MVLYVSSFR KLQTSNAFI VNGCAADLSV CALWMPQEA V LGLLPTGSAE PPADWDGAGG SYRLRGGL GLGLTVSLLS HCLVALNRYL LITRAPATYQ ALYQRRHTAG MLALSWALAL GLVLLPPWA PRPGAAPPRI HYPALLAAAA LLAQTALLH CYLGIVRRVR VSVKRVSVLN FHLHQLP GC AAAAAFPGA QHAPGPGGAA HPAQAQPLPP ALHPRRAQRR LSGLSVLLC CVFLLATQPL VWVSLASGFS LPVPWGVHAA SWLLCCALSA LNPLLTYWRN EEFRRSVRSV LPGVGDAAA AVAATAVPV SQAQLGTRAA QQHW ggctgcaata actactacti actggataa ttcaaaccti ccagaatcaa cagtatcag gtaaccaaca agaaatgcaa ggcttgaca acctcacctc tgcgctggg aacaccagc tggcacagc agactacaaa atcaccagg tctctccc actgtctac actgtcgti ttutgtg actatcaca aatggcctgg cgalagagat ttcttcaa atccggagta aatcaaat tatatttt cttaagaaca cagtcatttc tgaacttc atgtctcga ctitttca ctitttca aaaaatttt agtgatgca aactgggaac aggaccactg agaaatttg tggtaagt tacctcgc atatttt ttcaaatga tatcagatt tcaattctt gacttgatac tatgtcgc taccagaaga ccacaggcc attuaaaca tcaacocca aaaaatcti gggggctag atctctcig ttgtcactg ggcattcag ttctactcti ctgtctaa catgtctg accaaccagc agccagaga caagaatg agaaatgct ctitcttaa atcaggtic ggttactcti ggcataaat agtaaatat atctgtcaag tcaatttg gattatitc ttattitga ttgtatgta tactactatt acaaaagaac tgaacggc atagtaaga acgaagggtg taggttaagt cccaggaana aaggtgaacg tcaaatgtt catatcat gctgtacti ttattgtt tgtcttct catttgcc gaaatcctia caccctgagc caaacccggg atgtcttga ctgcactgt gaaataactc tgnctatg gaaagagagc actctgtgti taacttcti aaatgcatg ctggatcgt tcatrattt ttctctgc aagctctca gaaatctcti gataatgig ctgaatgig ccaattctg aacatctcig tccaggaaca</p>	A	Homo sapiens

643	191168	P2Y ₁₂ Platelet ADP Receptor	NP_073625.1	<p>ataggaaaaa agaacaggat ggtggtagc caaatgaaga gactccaatg taacaanaa aactaaggaa atattcaat ctctttgt tcaagactcg taaagcaaa ggcgaagta aaaaataaa ctgacaaaga agcaactaag ttaataataa tgaactaaa gaaacagaag attaacaag caattttat ttactttcc agtagaaaa gctatctaa aatatagaaa actaatctaa actgtagctg tattagcgc aaaaacaag ac</p> <p>MQA VDNLTSA PGNTSLCTRD YKIQVLEFPL LYTVLFFVGL ITNGLAMRIF FQIRSKSNFI IFKNTVISD LLMILTFPFK ILDAKLGTG PLRTFVCQVT SVIFYFTMYI SISFLGLITI DRYQKTRPF KTSNPKNLLG AKILSVVIWA FMFLLSLPNM ILTNRQPRDK NVKCSFLKS EFGLVWHEIV NYICQVFWI NFLIVVCYT LITKELYRSY VRTRGVGKVP RKKVNVKVF IIA VFFICFV PFHFARIPYT LSQTRDVFDC TAENTLFYVK ESTLWLTSLN ACLDPFIYFF LCKSFRNSLI SMLKCPNSAT SLSQDNRKKE QDGGDPNEET PM</p>	P	Homo sapiens
644	191193	Trace Amine Receptor 3 (TA3)	AF380189	<p>atgggaata atttccca agctgaggct gggagcigt gtacaagaa cgtgaagaa tctgcatta aaactctta ctgcagggt cctgatcta tctctacgc cgtccttgggt ttggggcgtg tctggcagc gttggaaac ttactggta ttactgctat ccttcactc aaacacatgc acacactac aaactttctg atgcgtgc tggccgtgc tgaactctg gttggagta ctg'ga'gcc cttcagaca gtagagctg tggagagctg ttggacttt gggagacagt actgaatit ccatatagt ttgacacat cctctgtt tgccttta ttacttat tctgatac tctgataga tcatgtcgt ttactgac tctgacat ccaaccaagt ttactgtc agtttcaggg atagcatg ttcttctg ttctttct gtcataca gctttcgt ttactgac gtagccaag aagaaggaa tgaggaaat gtagtgc taaactgt agggagcgc caggctcac tgaataaaa ctgggctcta ctgttttc ttacttct tataccaat gtcgcatgg ttttataa cagaagata ttuggtgg ccaagcatca gcttaggaag atagaaatg cagocagca agctcagctc tctcagaga gtacaagaa aagagtagca aaaaagagcgc caaaaccttg ggaattgcta tggcagcaat tctgtctc tggctaccat acctgtga tgcagtgat gtagctata tgaatttat aactctct tatgttat agatttat ttgtgtgt tattataa cagctatgaa cctctgatt tatgttct ttaccaatg gttgggaag gcaataac ttatgaag cggcaagtc taaagactg atctgcaac aactaatta ttctgaag agtagagac agataa MVNFSQAEA VELCYKNVNE SCIKTPYSPG PRSILYAVLG FGA VLA AFGN LLVMIAILHF KQLHTPTNFI IASLACADFL VGVTVMPFST VRSVESCWYF GDSYCKFHTC FDTSCFASL FHLCCISVDR YIAVTDPLTY PTKFTVSVSG ICIVLSWFFS VTYSFITYT GANEEGIEEL VVALTCVGC QAPLNQNWVL LCFLLFFIPN VAMVFTYSKI FLVAKHQARK IESTASQAQS SSESYKVERVA KRERKAATL GIAMAAFLVS WLPYLVDVI DAYMNFITPP YVYEILVWCV YVNSAMNPLI YAFFYQWFGK AIKLIVSGKV LRIDSSTTNL FSEEVETD</p>	A	Homo sapiens
645	191193	Trace Amine Receptor 3 (TA3)	AAK71240.1	<p>atgaatgag cactagata tttagcaat gcttctgatt tcccgatta tgcagctgt ttggaatg gcaatgata aaacatccca ctcaagatgc actactccc ttttatat ggcattatct tctctggag attocaggc aatgcagtag tgaatccac ttactttc aaaatgagac ctgggaagag cagcacatc attatctga acctggcgt cagcagatct ctgatactga ccagcctccc cttctgatt cactactag ccagtgagga aaactgagc ttggaatg tcatgttaa gtttatccg ttcatctcc atttcaact gtatagcagc atctctcc tcaactgt cagcatctc cgtactgtg tgaatca ccaatgagc tgcatttcca ttcaaaaac tgcattgca gtttagcct gtcgtgtggt gttgatat ttactgtag ctgctatcc gtagccttc ttgacacat caaccaacag gaccaacaga tcaagctgtc tgaactac cagttcgat gaactaala ctattaagc gtacaacctg atttgactg caactctt ctgctcccc ttggtgatg tgacacttg ctatacag attatccca ctctgacca tggactgcaa actgacagct gcttaagca gaaagcagca aggttaacca ttctgact ccttgatt ttactgtt tttaacct ctatctgt agggcatic gtagcatic tgcctgtct tcaatcagt gtoccatga gaatcagatc calgaagct acatgtttc tagaccatta gctgctctga acacttgg</p>	P	Homo sapiens
646	191196	G Protein- Coupled Receptor GPR80	AF411109	<p>atgaatgag cactagata tttagcaat gcttctgatt tcccgatta tgcagctgt ttggaatg gcaatgata aaacatccca ctcaagatgc actactccc ttttatat ggcattatct tctctggag attocaggc aatgcagtag tgaatccac ttactttc aaaatgagac ctgggaagag cagcacatc attatctga acctggcgt cagcagatct ctgatactga ccagcctccc cttctgatt cactactag ccagtgagga aaactgagc ttggaatg tcatgttaa gtttatccg ttcatctcc atttcaact gtatagcagc atctctcc tcaactgt cagcatctc cgtactgtg tgaatca ccaatgagc tgcatttcca ttcaaaaac tgcattgca gtttagcct gtcgtgtggt gttgatat ttactgtag ctgctatcc gtagccttc ttgacacat caaccaacag gaccaacaga tcaagctgtc tgaactac cagttcgat gaactaala ctattaagc gtacaacctg atttgactg caactctt ctgctcccc ttggtgatg tgacacttg ctatacag attatccca ctctgacca tggactgcaa actgacagct gcttaagca gaaagcagca aggttaacca ttctgact ccttgatt ttactgtt tttaacct ctatctgt agggcatic gtagcatic tgcctgtct tcaatcagt gtoccatga gaatcagatc calgaagct acatgtttc tagaccatta gctgctctga acacttgg</p>	A	Homo sapiens

647	191196	G Protein-Coupled Receptor GPR80	CAC51133.1	<p>taacctgtta ctatattggg tggcagcaga caactttcag caggctgtct gctcaacagt gagatgcaaa gtaagcggga accttgagca agcaagaataa attagtact caacaaccc tga MNEPLDYLAN ASDFPDYAAA FGNCTDENIP LKMHYLPVY GIIFLVGFP NAVVISITYF KMRPWKSSIT IMLNLACTDL LYLTSLPFLI HYYASGENWI FGDFMCKFIR FSFHNLYSS ILFLTCFSIF RYCVIHPS CFSHKTRCA VVACA VVWII SLVA VIPMTF LITSTNRTNR SACDLTSSD ELNLTWYN ILTATTFCLP LVIVLCYTT IIHTLTHGLQ TDSCLKQKAR RLTIILLAF YVCLFPFHIL RVRIESRLI SISCSINQI HEAYIVSGPL AALNTFGNLL LYVVSDNFQ QAVCSTVRCK VSGNLEQAKK ISYSNNP tccctggccc ttaataaag actaatctc tcaagctc tgaattctc tctgtaaaa caggggcggg aattacaca taacagctg gtcatgaaaa tcaatgaaca tgcagcaggt gctcaagctc tggtttgt tccagggggca ccaatggagg tttctgagc atggatocaa ccacccgggc ctgggggaaca gaagaatacga cagtgaaagg aaatgaccaa gccctctc tcttttgg caaggaagacc ctgatccggg tcttctgat ccttticat gccctggcgg ggctggagg aaacgggtt gtcctggc tccctgggct ccgcatgggc agggaacgct tctctgcta cgtctcagc ctggccgggg ccgactctt cttctctgc ttcagatta taaattgct gggttacct aggtaactct tctgttccat tccatcaat tccctagt tctcaaac tggatgacc tggcttacc tggcagcct gagcagctg agcacagctca gccccagagg ctgcctggcc gtcctgggc ccacttgta tgcctggcc ccgccagac acctgtcagc ggctgggtgt gtcctctct ggccctctc octactctg agcatctgg aaggggaagt ctgtggctc ttttttagt atgggtgact tggttgtgt cagcattg attatcac tgcagcggg ctgatttt ttttttagt tctgtggg tccagctgg cctgtgtgt caggatctc tgggttoca gggtctggcc actgacagg ctgactgga ccatctgt cactgtctg cactgtctg ggttctoc tctgggctt gccctggc attcaggt tcttaatt atggatctgg aagatctg atgtctat tttctat tctcagct cagttgtct gtcactt aacagcagtg ccaacccat cttttact tctgtggct ctttaggaa gcaatggcgg ctgcagcagc cgatctcaa gctggctc cagagggtc tgcaggat tctggagg gatacagtg aaggatgtt ccgtcagggc acccggga tgcgagaag cagctggg tagagatga cagccctac ttcactga tatatggc tttagaggc aactgtcc ctgtctgt gatttga actttcag tctgattt aaacatga agagatct tggagatc aatgagaca MDPTTAWGT ESTTVNGNDQ ALLLCGKET LIPVFLILFI ALVGLVGNFG VLWLLGFRMR RNAFSVYVLS LAGADFLLC FQIINCL VYL SNFFCSISIN FPSFTTVMT CAYLAGLSML STVSTERCLS VLWPIWYRCR RPRHLSAVVC VLLWALSLL SILEGKFCGF LFSDGDSGWC QTFDFTAAW LIFLMVLCG SSLALLVRIL CGSRGLPLTR LYL TILLTVL VFLLCGLPFG IQWFLIWIW KDSVDLFC HPVSVVLSL NSSANPIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV DHSEGCFRQG TPMSRSLV tcatatct gacatttt ttcaggcaa agtttttagt acatttgg catttccct gcatatgt gcaaatgt gggctgaag alcttgtt tttgcagg ttcagact ggcataag ctgggattgg tcatgtgac atggcctc atggagatga gtagagcagg actcaggga algctgtca cactatggga agaataactg tagatctct tgaagaagg agactttgt ttaactct gcttaacaat aataacatag catttggga tagggatga alacaggat ccataatag ataatatg gacaataatc tccacagctg gtaatat ggcaatgt gtagcataga tagggatga tggatgca gctatgaagt aatgagat gccaatgta atgaattgg cttcattga atttcatat tttgttga aggaataat gaagcaaatg aaggccagga tggcaatgta gccacatg gtgccaatg caagtatga tccctctca cactocagga tgaatctt gggaagagg acattacct ctacatagg tgcctgcaag attagcaga gttgtgcaat gacaacctgg atggccggc aatgtgaatg aataaggatc ggctataga ggcacticag aaatttgt aattgggat caaagctga gcttagcaga attttcag actttgca aatgcaaggag atgcaaaag taaagctcac tcaaacatt gctgtcctgg tttttatgt gaaagtctt gggttccaa tgaataagct cgtgtggga</p>	P	Homo sapiens
648	191218	MrgX2 G Protein-Coupled Receptor	AY042214	<p>taacctgtta ctatattggg tggcagcaga caactttcag caggctgtct gctcaacagt gagatgcaaa gtaagcggga accttgagca agcaagaataa attagtact caacaaccc tga MNEPLDYLAN ASDFPDYAAA FGNCTDENIP LKMHYLPVY GIIFLVGFP NAVVISITYF KMRPWKSSIT IMLNLACTDL LYLTSLPFLI HYYASGENWI FGDFMCKFIR FSFHNLYSS ILFLTCFSIF RYCVIHPS CFSHKTRCA VVACA VVWII SLVA VIPMTF LITSTNRTNR SACDLTSSD ELNLTWYN ILTATTFCLP LVIVLCYTT IIHTLTHGLQ TDSCLKQKAR RLTIILLAF YVCLFPFHIL RVRIESRLI SISCSINQI HEAYIVSGPL AALNTFGNLL LYVVSDNFQ QAVCSTVRCK VSGNLEQAKK ISYSNNP tccctggccc ttaataaag actaatctc tcaagctc tgaattctc tctgtaaaa caggggcggg aattacaca taacagctg gtcatgaaaa tcaatgaaca tgcagcaggt gctcaagctc tggtttgt tccagggggca ccaatggagg tttctgagc atggatocaa ccacccgggc ctgggggaaca gaagaatacga cagtgaaagg aaatgaccaa gccctctc tcttttgg caaggaagacc ctgatccggg tcttctgat ccttticat gccctggcgg ggctggagg aaacgggtt gtcctggc tccctgggct ccgcatgggc agggaacgct tctctgcta cgtctcagc ctggccgggg ccgactctt cttctctgc ttcagatta taaattgct gggttacct aggtaactct tctgttccat tccatcaat tccctagt tctcaaac tggatgacc tggcttacc tggcagcct gagcagctg agcacagctca gccccagagg ctgcctggcc gtcctgggc ccacttgta tgcctggcc ccgccagac acctgtcagc ggctgggtgt gtcctctct ggccctctc octactctg agcatctgg aaggggaagt ctgtggctc ttttttagt atgggtgact tggttgtgt cagcattg attatcac tgcagcggg ctgatttt ttttttagt tctgtggg tccagctgg cctgtgtgt caggatctc tgggttoca gggtctggcc actgacagg ctgactgga ccatctgt cactgtctg cactgtctg ggttctoc tctgggctt gccctggc attcaggt tcttaatt atggatctgg aagatctg atgtctat tttctat tctcagct cagttgtct gtcactt aacagcagtg ccaacccat cttttact tctgtggct ctttaggaa gcaatggcgg ctgcagcagc cgatctcaa gctggctc cagagggtc tgcaggat tctggagg gatacagtg aaggatgtt ccgtcagggc acccggga tgcgagaag cagctggg tagagatga cagccctac ttcactga tatatggc tttagaggc aactgtcc ctgtctgt gatttga actttcag tctgattt aaacatga agagatct tggagatc aatgagaca MDPTTAWGT ESTTVNGNDQ ALLLCGKET LIPVFLILFI ALVGLVGNFG VLWLLGFRMR RNAFSVYVLS LAGADFLLC FQIINCL VYL SNFFCSISIN FPSFTTVMT CAYLAGLSML STVSTERCLS VLWPIWYRCR RPRHLSAVVC VLLWALSLL SILEGKFCGF LFSDGDSGWC QTFDFTAAW LIFLMVLCG SSLALLVRIL CGSRGLPLTR LYL TILLTVL VFLLCGLPFG IQWFLIWIW KDSVDLFC HPVSVVLSL NSSANPIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV DHSEGCFRQG TPMSRSLV tcatatct gacatttt ttcaggcaa agtttttagt acatttgg catttccct gcatatgt gcaaatgt gggctgaag alcttgtt tttgcagg ttcagact ggcataag ctgggattgg tcatgtgac atggcctc atggagatga gtagagcagg actcaggga algctgtca cactatggga agaataactg tagatctct tgaagaagg agactttgt ttaactct gcttaacaat aataacatag catttggga tagggatga alacaggat ccataatag ataatatg gacaataatc tccacagctg gtaatat ggcaatgt gtagcataga tagggatga tggatgca gctatgaagt aatgagat gccaatgta atgaattgg cttcattga atttcatat tttgttga aggaataat gaagcaaatg aaggccagga tggcaatgta gccacatg gtgccaatg caagtatga tccctctca cactocagga tgaatctt gggaagagg acattacct ctacatagg tgcctgcaag attagcaga gttgtgcaat gacaacctgg atggccggc aatgtgaatg aataaggatc ggctataga ggcacticag aaatttgt aattgggat caaagctga gcttagcaga attttcag actttgca aatgcaaggag atgcaaaag taaagctcac tcaaacatt gctgtcctgg tttttatgt gaaagtctt gggttccaa tgaataagct cgtgtggga</p>	A	Homo sapiens
649	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	<p>taacctgtta ctatattggg tggcagcaga caactttcag caggctgtct gctcaacagt gagatgcaaa gtaagcggga accttgagca agcaagaataa attagtact caacaaccc tga MNEPLDYLAN ASDFPDYAAA FGNCTDENIP LKMHYLPVY GIIFLVGFP NAVVISITYF KMRPWKSSIT IMLNLACTDL LYLTSLPFLI HYYASGENWI FGDFMCKFIR FSFHNLYSS ILFLTCFSIF RYCVIHPS CFSHKTRCA VVACA VVWII SLVA VIPMTF LITSTNRTNR SACDLTSSD ELNLTWYN ILTATTFCLP LVIVLCYTT IIHTLTHGLQ TDSCLKQKAR RLTIILLAF YVCLFPFHIL RVRIESRLI SISCSINQI HEAYIVSGPL AALNTFGNLL LYVVSDNFQ QAVCSTVRCK VSGNLEQAKK ISYSNNP tccctggccc ttaataaag actaatctc tcaagctc tgaattctc tctgtaaaa caggggcggg aattacaca taacagctg gtcatgaaaa tcaatgaaca tgcagcaggt gctcaagctc tggtttgt tccagggggca ccaatggagg tttctgagc atggatocaa ccacccgggc ctgggggaaca gaagaatacga cagtgaaagg aaatgaccaa gccctctc tcttttgg caaggaagacc ctgatccggg tcttctgat ccttticat gccctggcgg ggctggagg aaacgggtt gtcctggc tccctgggct ccgcatgggc agggaacgct tctctgcta cgtctcagc ctggccgggg ccgactctt cttctctgc ttcagatta taaattgct gggttacct aggtaactct tctgttccat tccatcaat tccctagt tctcaaac tggatgacc tggcttacc tggcagcct gagcagctg agcacagctca gccccagagg ctgcctggcc gtcctgggc ccacttgta tgcctggcc ccgccagac acctgtcagc ggctgggtgt gtcctctct ggccctctc octactctg agcatctgg aaggggaagt ctgtggctc ttttttagt atgggtgact tggttgtgt cagcattg attatcac tgcagcggg ctgatttt ttttttagt tctgtggg tccagctgg cctgtgtgt caggatctc tgggttoca gggtctggcc actgacagg ctgactgga ccatctgt cactgtctg cactgtctg ggttctoc tctgggctt gccctggc attcaggt tcttaatt atggatctgg aagatctg atgtctat tttctat tctcagct cagttgtct gtcactt aacagcagtg ccaacccat cttttact tctgtggct ctttaggaa gcaatggcgg ctgcagcagc cgatctcaa gctggctc cagagggtc tgcaggat tctggagg gatacagtg aaggatgtt ccgtcagggc acccggga tgcgagaag cagctggg tagagatga cagccctac ttcactga tatatggc tttagaggc aactgtcc ctgtctgt gatttga actttcag tctgattt aaacatga agagatct tggagatc aatgagaca MDPTTAWGT ESTTVNGNDQ ALLLCGKET LIPVFLILFI ALVGLVGNFG VLWLLGFRMR RNAFSVYVLS LAGADFLLC FQIINCL VYL SNFFCSISIN FPSFTTVMT CAYLAGLSML STVSTERCLS VLWPIWYRCR RPRHLSAVVC VLLWALSLL SILEGKFCGF LFSDGDSGWC QTFDFTAAW LIFLMVLCG SSLALLVRIL CGSRGLPLTR LYL TILLTVL VFLLCGLPFG IQWFLIWIW KDSVDLFC HPVSVVLSL NSSANPIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV DHSEGCFRQG TPMSRSLV tcatatct gacatttt ttcaggcaa agtttttagt acatttgg catttccct gcatatgt gcaaatgt gggctgaag alcttgtt tttgcagg ttcagact ggcataag ctgggattgg tcatgtgac atggcctc atggagatga gtagagcagg actcaggga algctgtca cactatggga agaataactg tagatctct tgaagaagg agactttgt ttaactct gcttaacaat aataacatag catttggga tagggatga alacaggat ccataatag ataatatg gacaataatc tccacagctg gtaatat ggcaatgt gtagcataga tagggatga tggatgca gctatgaagt aatgagat gccaatgta atgaattgg cttcattga atttcatat tttgttga aggaataat gaagcaaatg aaggccagga tggcaatgta gccacatg gtgccaatg caagtatga tccctctca cactocagga tgaatctt gggaagagg acattacct ctacatagg tgcctgcaag attagcaga gttgtgcaat gacaacctgg atggccggc aatgtgaatg aataaggatc ggctataga ggcacticag aaatttgt aattgggat caaagctga gcttagcaga attttcag actttgca aatgcaaggag atgcaaaag taaagctcac tcaaacatt gctgtcctgg tttttatgt gaaagtctt gggttccaa tgaataagct cgtgtggga</p>	P	Homo sapiens
650	191222	G Protein-Coupled Receptor Ls191222	LG94359	<p>taacctgtta ctatattggg tggcagcaga caactttcag caggctgtct gctcaacagt gagatgcaaa gtaagcggga accttgagca agcaagaataa attagtact caacaaccc tga MNEPLDYLAN ASDFPDYAAA FGNCTDENIP LKMHYLPVY GIIFLVGFP NAVVISITYF KMRPWKSSIT IMLNLACTDL LYLTSLPFLI HYYASGENWI FGDFMCKFIR FSFHNLYSS ILFLTCFSIF RYCVIHPS CFSHKTRCA VVACA VVWII SLVA VIPMTF LITSTNRTNR SACDLTSSD ELNLTWYN ILTATTFCLP LVIVLCYTT IIHTLTHGLQ TDSCLKQKAR RLTIILLAF YVCLFPFHIL RVRIESRLI SISCSINQI HEAYIVSGPL AALNTFGNLL LYVVSDNFQ QAVCSTVRCK VSGNLEQAKK ISYSNNP tccctggccc ttaataaag actaatctc tcaagctc tgaattctc tctgtaaaa caggggcggg aattacaca taacagctg gtcatgaaaa tcaatgaaca tgcagcaggt gctcaagctc tggtttgt tccagggggca ccaatggagg tttctgagc atggatocaa ccacccgggc ctgggggaaca gaagaatacga cagtgaaagg aaatgaccaa gccctctc tcttttgg caaggaagacc ctgatccggg tcttctgat ccttticat gccctggcgg ggctggagg aaacgggtt gtcctggc tccctgggct ccgcatgggc agggaacgct tctctgcta cgtctcagc ctggccgggg ccgactctt cttctctgc ttcagatta taaattgct gggttacct aggtaactct tctgttccat tccatcaat tccctagt tctcaaac tggatgacc tggcttacc tggcagcct gagcagctg agcacagctca gccccagagg ctgcctggcc gtcctgggc ccacttgta tgcctggcc ccgccagac acctgtcagc ggctgggtgt gtcctctct ggccctctc octactctg agcatctgg aaggggaagt ctgtggctc ttttttagt atgggtgact tggttgtgt cagcattg attatcac tgcagcggg ctgatttt ttttttagt tctgtggg tccagctgg cctgtgtgt caggatctc tgggttoca gggtctggcc actgacagg ctgactgga ccatctgt cactgtctg cactgtctg ggttctoc tctgggctt gccctggc attcaggt tcttaatt atggatctgg aagatctg atgtctat tttctat tctcagct cagttgtct gtcactt aacagcagtg ccaacccat cttttact tctgtggct ctttaggaa gcaatggcgg ctgcagcagc cgatctcaa gctggctc cagagggtc tgcaggat tctggagg gatacagtg aaggatgtt ccgtcagggc acccggga tgcgagaag cagctggg tagagatga cagccctac ttcactga tatatggc tttagaggc aactgtcc ctgtctgt gatttga actttcag tctgattt aaacatga agagatct tggagatc aatgagaca MDPTTAWGT ESTTVNGNDQ ALLLCGKET LIPVFLILFI ALVGLVGNFG VLWLLGFRMR RNAFSVYVLS LAGADFLLC FQIINCL VYL SNFFCSISIN FPSFTTVMT CAYLAGLSML STVSTERCLS VLWPIWYRCR RPRHLSAVVC VLLWALSLL SILEGKFCGF LFSDGDSGWC QTFDFTAAW LIFLMVLCG SSLALLVRIL CGSRGLPLTR LYL TILLTVL VFLLCGLPFG IQWFLIWIW KDSVDLFC HPVSVVLSL NSSANPIYF FVGSFRKQWR LQQPILKLAL QRALQDIAEV DHSEGCFRQG TPMSRSLV tcatatct gacatttt ttcaggcaa agtttttagt acatttgg catttccct gcatatgt gcaaatgt gggctgaag alcttgtt tttgcagg ttcagact ggcataag ctgggattgg tcatgtgac atggcctc atggagatga gtagagcagg actcaggga algctgtca cactatggga agaataactg tagatctct tgaagaagg agactttgt ttaactct gcttaacaat aataacatag catttggga tagggatga alacaggat ccataatag ataatatg gacaataatc tccacagctg gtaatat ggcaatgt gtagcataga tagggatga tggatgca gctatgaagt aatgagat gccaatgta atgaattgg cttcattga atttcatat tttgttga aggaataat gaagcaaatg aaggccagga tggcaatgta gccacatg gtgccaatg caagtatga tccctctca cactocagga tgaatctt gggaagagg acattacct ctacatagg tgcctgcaag attagcaga gttgtgcaat gacaacctgg atggccggc aatgtgaatg aataaggatc ggctataga ggcacticag aaatttgt aattgggat caaagctga gcttagcaga attttcag actttgca aatgcaaggag atgcaaaag taaagctcac tcaaacatt gctgtcctgg tttttatgt gaaagtctt gggttccaa tgaataagct cgtgtggga</p>	A	Homo sapiens

651	191222	G Protein-Coupled Receptor Ls191222	ENSP000000199 719	QTLAMHSIE MINNSTLLPG VKLGYEYIDT CTEVTVAMAA TLRFLSKFNC SRETVEFKCD YSSVMPRVKA VIGSGYSEIT MAVSRMLNLQ LMPQVGYEST AEILSDKIRF PSFLRTVPSD FHQIKAMAH L IQKSGWNWIG IITDDDDYGR LALNTFIQA EANNVCIAFK EVLPAFLSDN TIEVRINRTL KKILEAQVN VIVFLRQFH VFDLFNKAIK MININKMWIAS DNWSTATKIT TIPNVKKIKG VVGFAFRRGN ISSFHSFLQN LHLPSDSHK LLHEYAMHLS ACAYVKDIDL RLHISQILAV FALGYAIRDL CQARDCQPN AFQPWELLGV LKNVTFIDGW NSFHDAGHD LNTGYDVLW KEINGHMTVT KMAEYDLQND VFIPDQETK NEFRNLKQIQ SKCSKECSPG QMKKTTIRSQH ICCYECQNC P ENHYTNQ TDM PHCLLCNNKT HWAPVRSTMC FEKEVEYLNW NDLSAILLLI LSLGLIIFVL VVGIIITRNL NTPVVKSSGG LRVCYVILLC HFLNFAS TSF FIGEPODFTC KTRQTMFGVS FTLCISILT KSLKILLAFS FDPKLQKFLK CLYRPILIF TCTGIQVVIC TLWLFAAPT VEVNVS LPRV ILECEEGSI LAFGTM LGYI AILAFICFIF AFKGYENYN EAKFITFGML IYFIAWITFI PIYATTFGKY VPAVEIIVL ISNYGILYCT FIPKCYVVIC KQEINTKSAF LKMIYSYSSH SVSSI	P	Homo sapiens
652	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	NM_032571	ttttctgac taggaaaggt gggtggctta cggacagata gagaagcttcc agggctgggt accgtatcca cagaanaigca gggacattgt cttctccag gcccttgctt tctctgagc cttcttgagc ctgtgactca gaaataccaaa actctctgtg ctaagtgccc cccaaatgct tctgtgtgca ataacactca ctgacactgc aaccatggat atactctgg atctggggcag aaacttca cttccctt ggagacatgt aagacacatta atgaatgtac accacactat agtgtatatt gttggattaa cgtctgtgtgt tacaatgicg aaggaaagtt ctactgtcaa tgggtccag gatatagact gcaattctggg aatgaaacat tcaatgaatgc caatgaat accgtgcaag acacacctc ctcaagaca accgaggggca ggaagaagct gcaaaagatt gttgactact tctaccaat cagacttat ggagaaacaga agggagagaca gaaatctcat ccacagctac cactatctc cgggagtggg aatcgaaaagt tctagaaact gccctgaaag atccagaaca aaaaagctcg aaaaatccaaa acgataaggt agctattgaa actcaaggca ttacagacaa ttgctctgaa gaaagaaaga caltcaacti gaacgttccaa atgaaactcaa tggacatccg ttgcagtac atcatccagg gtagacacaca aggtcccaagt gocatggctt ttatctata ttctctctt ggaatacatca taaatgcaac ttttttga gagaaggata agaaagata agtgtatctg aactctcagg ttgtgagtc tgcatttga cccaaaaggaa acgtgtctct ctccaagctt gtagagctga ctttccagca cgttgaaagatg accccagta ccaaaaagggt cttctgtgtc tacttgaaaga gcacaggggca gggcagccag tgggtccagggt atggctgtcti cctgtatcac gtagaacaaga gtacacacat gttgaattgc agtcaactgt ccagcttgc tgtctgaltg ggcctgacca gccaaggagga gtagatccgtg ctgactgtgca tcaactactg ggggctgagc gtctctctg tggctctct ccttggggggcc ctactttt tctgtgttaa agcatccagg aacacagca cctcactgac tctgactctc tggctctgoc tcttctggc ccactctc ttctctggc tggatgggtg gcaactgtc ctactgtcac gttccatcat cggcgggtgt ttgcataic tctacttgc cggcttccac tggatgtctg tggaggggtgt gcaactgtc ctactgtcac ggaacctgac agtgggtcaac tactcaaga tcaatagact catgaagtg atcatgttcc cagctgggct tggcgttcc gctgtgactg tgggcatc tgcagcttcc tggccttacc ttatgtgaac tgtgtatga tgtgtgttcc accgtggacca gggattcatg tggagtttcc ttggocagat ctgtgtccat ttctctgca atttatgtt gttatctg gcttttga ttgtgaaag aaaaacttcc tccitcaata gtagaagtc aaccatccag aacacagaaga tgcgtggctt caaagcaaca gctcagctct tcaactggg ctgcacatgg tgcgtgggt tgcatacagg ggggtccagct gcccaggtca tgcactatc	A	Homo sapiens

Homo
sapiens

P

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LGCTWCLGLL QVGPAAQVMA YLFTIINSLQ GFFILVYCL LSQQVQKQYQ

KWFRREIVKSK SESETYTLSS KMGPDSPSE GDVFPQVKR KY

KHAYICLAAI WAYASFWTM PLVGLGDYVP EPFGTSCITLD WWLAQASVGG

QVFILNLF CLLLPTAVIV FSYVKIIKV KSSSKEVAHF DSRHSHVLE EMKLTKVAML

ICAGFLIAWI PYAVVSVWSA FGRPDSIPQ LSVVPTLLAK SAAMYNPUIY

QVIDYKFACC QTGGLKATKK KSLEGFRLHT VTVRKSSAV LEIHEEV

agcgaacat cggggcagcc ggagagccag ttggagcggc ggagagcggc agcagcgc ggagatctgt ggtggggggc

gaaaaagcca gggccgcagc ccggagagggc tccggccgcg gattagatgg tgcagaggg gcggccggggg tgcggagaga

caggcggagg gggggggggc ccggggcggcg gcaggggggcc ggaggggggg ccgagcggcg gggccagccc

aaaggccggg ccggggcggg ggccgggggga ggccgtggcag ggagggggga gattgaggcg agggcggccg

cgggcggggg ccgggggga cggcggcc ccatctct gctctctc cctcttct tccctcag ccaggaggag

ctggggggcg ggggcacc aaggctggag ccaggcttag ctggccatag ggggccaaag gcgcatacgg ggccggagc

cttagcttt tgcgggagt ctccgggggt ccggggggat ggggggcggt ggccgggggt caggggagcct atctctgg

ggctccgagg gaggaggcaa agcggccggga atagtcgggg gcccctggag cagccggaatg agggagctggg gattgaacac

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acagctggcc cctccctca gactttga ttggcacc cggctccaa cggctggctt ccagcggga cggctgggaca

ggctcccgca aagaaggggg caccggcg tgcgtggggg aattgggg aacaggggagc aaggggcagg gcgagagagc

cacggatcc ggagcagaaa ggagagcccc ccggggggaac tgcctccag ggccctcggg atctggcccc gaggctggatt

caggaccacg caggcggagg acagctcttg catcaggttc agcaccoccc ggagctcggga cagctcccgga ggccggcgcc

aaaggcagc gctccggggg tctctccg tggcgcttc tcccgagcgc ccccgggccg cgtccccgg gactccggc

ccgtctgaa gccaggaaag taacctggc gaacggggca cgtcttctc ggccggcga aa ccggccccc cagtttccgc

agttacacta ccaggagctg ggccgggaga atgaggcagc agggcaccgg gggttaccgg tgggttctca ggaccgggac

ggccggcgagg ccggggcgct agtctactg ctggcgggcac tcaagaacag ccgctcgtcg gaggctgtca gcatcgacc

NP_115960.1

EGF-Like

Module-

Containing

Mucin-Like

Receptor EMR3

653

193511

CAC21687.1

G Protein-

Coupled Receptor

d1402H5.1

654

193516

NM_001407

Cadherin EGF

LAG Seven-Pass

G-Type Receptor

3 (CELSR3)

655

193524

[illegible]

[illegible]

[illegible]

Homo sapiens

P

gcaaaaggag cagaacaag ggaaticag accagaatg taggigccac tgcctctat gttacagga tcciccgagg
ccctaggcac ctgggctgca ggaagtact ccgtccact cctcttatt tccctaaaa agggaaaaat gactgtacg
accctgtca caaaactt actttgcta ttgtctgc tgcacagac tgaagactt aaatitgt tactgtuac aagtcacat
tcaaaaalg ttttactt gttacact caaaacttg agttacac ttgttaca gtagataat ttttctt ttttccaag
tgaagagtag ggaagtgagg agagagactt ggaaggacca cctgtgagga cctgacctg ggaacttga ggggtttct
aaccocagg tctocagg cgaaggtcag ccttgagtc cgtttacag cagatccaga agactctgag agtagggcgc
ctctaacac gggggagagt ggcgtgagc ggcgtggggg tggctgtgac agacacctoc tccocacca cccatgcat
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ctctcttuc cgaagagac cccagctct gaagggtcga gggcctgct ggggtgggga ggggtcttt actatgctt
agggttcta gaggccctc tgggggtc cctctcca gccagggc cctcttct gctgtgtaa atgtccgt gaaagccgpc
tctgttgg gaataact ctatagaaa caaaa
MMARRPPWRG LGERSTPILL LLLLSLPLS QEELGGGGHQ GWDPLAATT
GPRAHIGGGA LALCPSSGV REDGGPLGV REPVGLRG RRQSARNSRG
PPEQPNEELG IEHGVQPLGS RERETGQPG SVLYWRPEVS SCGRTPGLQR
GSLSPGALSS GVPGSGNSSP LPSDFLRHH GPKPVSSQRN AGTSRKRVG
TARCCGELWA TGSKGQGERA TTSGAERTAP RRNCLPGASG SGPELDSAPR
TARTAPASGS APRESRTAPE PAKRMRSRG LFRCLPQR PGP RPPLA
RPEARV TSA NRARFRRAAN RHPQFQYNY QTL VPENEA GTAVLRVVAQ
DPDAGEAGRL VYSLAALMNS RSELEFSIDP QSGLRTAAA LDRESMERHY
LRVTAQDHGS PRLSATTMVA VTVADRNDHS PVFEQAQYRE TLRENVEEGY
PILQLRAITDG DAPPNANLRY RFVGPPAARA AAAAFEDIP RSGLISTSGR
VDREHMESE LVVEASDQOQ EPGRSATVR VHITVLDEND NAQFSEKRY
VAQVREDVRP HTVVLRTAT DRDKDANGLV HYNISGNR GHFAIDSLTG
EIQVVAPLDF EAEREYALRI RAQDAGRPL SNNTGLASIQ VVDINDHIPI FVSTPFQVSV
LENAPLGHVS IHQAQVDADH GENARLEYSL TGVAPDTPFV INSATGWVSV
SGPLDRESVE HYFFGVEARD HGSPPLSASA SVTVTVLDVN DNRPEFTMKE
YHLRLNEDAA VGTSVSVSTA VDRDANSAS YQITGGNTRN RFAISTQGGV
GLVTLALPLD YKQERYFKLV LTASDRALHD HCYVHNITD ANTHRPVFQS
AHYSVSVNED RPMGSTIVI SASDDDVGEN ARITYLLEDN LPQFRIDADS
GAITLQAPLD YEDQVITYTLA ITARDNGIPQ KADTTYVEVM VNDVNDNAPO
FVASHYTGLV SEDAPPFTSV LQISATDRDA HANGRVQYTF QNGEDGDGDF
TIEPTSGIVR TVRRLDREAV SVYELTAYAV DRGVPLRTP VSIQVMVQDV
NDNAPVFP AE EFEVRVKENS IVGSVVAQIT AVDPDEGPNA HIMYQIVEGN
IPELFQMDIF SGELTALIDL DYEAREQYVI VVQATSAPLV SRATVHVRLV
DQNDNSPVLN NFQILFNHYV SNRSDTFPSG IIGRIAYDP DVSDHLFYSF
ERGNELQLLV VNQTSSELRL SRKLDNNRPL VASML VTVTD GLHSVTAQCV
LRVVIITEEL LANSLTVRLE NMWQERFLSP LLGRFLEGVA AVLATPAEDV
FIFNIQNDTD VGGTVLNVSF SALAPRGAGA GAAGPWFSSE ELQEQLYVRR
AALAAARSLLD VLPFDNDNVCL REPCENYMKC VSVLRFDSSA PFLASASTLF
RPIQPIAGLR CRCPPGFTGD FCETELDLCLY SNPCRNGGAC ARREGGYTCV

NP_001398.1

Cadherin EGF
LAG Seven-Pass
G-Type Receptor
3 (CELSR3)

193524

656

DTEAGRCV PGVCRNGGTC TDAPNGGFC QCPAGGAFEG
SSFMFRG LRQRFHLTSLSFATVQSQGLLFYNGRLNE
QVRLTYST GESNTVVSPT VPGGLSDQGW HTVHLRYYNK
PSKDKAVL SVDDCDVAVALQFGAEIGNY SCAAAGVQTS
LGGVNLPEFPVSHKDF ICMRDLHID GRRVDMMAFV
KLHFCDSGP CKNSGFCSEWGSFSDCPV GFGGKDCQLT
TLSWNFGSD MAVSPWYLGLAFRTRATQGLMQVQAGPH
SVTVTRGS GRASHLLDDQ VTVSDGRWHD LRLEQEEPG
LDFSLFQDT MAVGSELQGLKVKQLHVGGP PPSAEEAPQ
GSTPSGSPA LLPSHRVNA EPGCVVTNAC ASGPCPHAD
QPGYYGPG CVDACLNPQ QNGQSCRHLPGAPHGYTDCD
RMDQQCPRG WWGSTCGPC NCDVHKGFDP NCNKTNGQCH
SCLPCDCY PVGSTSRSCA PHSGQPCRP GALGRQCNSC
RVLVDACP KSLRSGVWWP QTKFGVLATV PCPRGALGAA
EPDLFNCTSPAFRELSTLLDGLELNKTALDTMEAKKLAQ
YFSQDVRVTARLLAHLAFESHQQGFGLTATQDAHFEN
TGDLWAALQORAPGGSPGSAGLVRHLEEYAATLARNAME
NIMLSIDRMEHPSSPRGARRYPRYHNSLFRQDQAWDPH
SPSEVLPTSSSIENSTTSVVPAPPPEPGISHILLVYRTLGGLL
RLPQNPMN SPVSVAVFHGRNFLRGILESPISLEFRL
WDPPGLAEQHGVTWTRDC ELVHRNGSHA RCRCSTRGTG
EGDLELLAVFTHVVAVSVAALVLTAAILLSLRSKSN
LGVAEILLFGHRTNQLVCTAVAILLHYFELSTFAWL
VEPRNVDRGAMRFYHALGWGPVALLGLAVGLDPEGYGN
IWSFAGPVVLVVMNGTMFLAARTSCSTGQREAKKTS
VSASWLFGLLAVNHSILAFHYLHAGLCGLQGLAVLLL
WMPACLGRKAAPEEARPAPGLGPGAYNNTALFEESGLIR
ARSGRTQDQDSQGRSYLRDNVLRHGSAADHTDHS
AMFHRDAGADSDSDLSLEERSLSIPSESEDNGRTR
SERLLTHPKDVGNDLLSYWPALGECEAPCALQTWGS
ANNQDPALTSGDETSLGRAQRQKGLKNRLQYPLV
RAATLGHRAVPAASYGRIYAGGTGSLSPASRYSSRE
ERLEEAPAVLRPLSRPGSQECMDAAPGRLEPKDRGST
AMAGRFGSRDALDLGAPREWLSTLPPPRTRRLDLPQPP
DPLPSRPLDSLSSNSREQLDQVPSRHPSREALGPLQLLRAREDS
LDLSSILASFNSSALSSVQSSSTPLGPHITATPSATA SVLGPSTPRS
EVRSEGHS
cca gccicccaac agcaghtggc cccaaagca gaagggagc aacactgagg ccacccggc
t cctactatca gcacaccc cctggggcg ccatgtcat tgggcatat ggctcatct tctgtctgt
tgg tctgttcat cgtgtccaag aacgggaca tgcatactgt cacaacatg tcatctca

A Homo sapiens

658	193914	Neuropeptide FF 1 Receptor	NP_071429.1		<p>accctggctgt cagtgagccttg cttcttgcat gccaccacc ctttgagaca accatcac tgggtggccc ttgacaaatg ccacatgcaa gtagagcggc ttgggtgcaagg gcatgtctgt gtccggcttcc gttttcacac tgggtggccat tgcttgagaa aggttccgct gcatcggtga cctttccg gtagagcttga ccttgctgaa ggcgctcgt accatggccg tcatctgggc cctggcgtct cttcatgt gtccctggc cgtcacgctg accgtacccc gtagaggtgaca ccattcatg gtggagccc gcaaccgctc ctacccttc tactctgt gtagagccttg gcccgagaaag ggcattgctga ggggtctacac cactgtctc ttctggcaca ttactggc gccgttggcg cttatgttgg tcatgttgg tcatgttgg ccgtcatgctc ggcaggcccc gggccccggc cccggggggcg agtagggcttg gtagccggcg gcatcgcgcc gtagaggtcag cgttggtgac algcttggtca ttgttgctgt gttttcacg cgtctggc gtccgtcttg gggcgtcttg cgtctatcg actiagggtga gctcatggcg ccgtagctgc acctggtcac cgttaccg ttcccttg ccgcatggct ggcctttc aacagcagcg ccaacccat cactacggc tactcaacg agaatccg ccggggctt caggccggct locggccc cctctggccc cgccctgg gtagccaca gtagggctac tccgagcggc ccggcgggct tctgacagg cgggtcttg ttgttggttg ggccagcgac tccggctgc ccttgagtc gggccctagc agtgggggcc ccaggccggc cggcttccg cgtcggaatg ggcgggtggc tcaccaggc ttgcacagg aaggcccttg cgtctccac cgtccctca ccatccagc cgggataic tga MEGEPSPQPN SSWPLSQNGT NTEATPATNL TFSYYQHTS PVAAMFIVAY ALIFLLCMVG NTL VCFVLK NRHMHTVTNM FILNLA VSDL LVGFCMPTT LVDNLITGWP FDNATCKMSG LVQMSVSAS VFTLVAIAVE RFRClVHPFR EKLTLRKALV TIAVIWALAL LIMCPSAVL TVTREHHFM VDA RNRSYPL YSCWEAWPEK GMRRVYTTVL FSHYLAPLA LIVVMYARJA RKLQCAPGA PGEEAADPR ASRRRARVVH MLVMVALFFT LSWPLWALL LLIDYQLSA PQLHLVTVYA FFAHWLAFF NSSANPIYG YFNENFRGF QAAFRARLCP RPSGSHKEY SERPGGLLHR RVFVVVRPSD SGLPSESQPS SGAPRPGRLP LRNGRVAHHG LPREGPGCSH LPLTIPAWDI</p>	P	Homo sapiens
659	194319	G Protein-Coupled Receptor FLJ22684	NM_025048		<p>agatacgtat actttctt caaacagcat aagaatgat tggaccaca gtaactgaa ggaagggtc cctcagttg tgggtgaag agataaatca ccagtcacag actatgcaac cgactgtcgt gttcagtc agggaaaa gaaatgtggag tgcttggtc cattttc ttacctca ctagcgcca cgggtgctt cgggggaaaa algatgcat caaaacaaaa aaagaaacta ttgtaataa gaaaaaacat ctagggccag tcaagaaata ttagctgtc cttcagggtga cctatagaga ttccaaaggag aaagagatit ttagaaatt tctgaagctc ttgaagcctc catattatg gtcacatggc ctaattagaa ttatcagagc aaaggctacc acagctgca acagcctgaa ttggagctct cagttgtaact gtagagacag ctacaccttg ttctctcc catgcttga tccagaagac tgtaccttc acagggcttg agcactcca agctgtgaat gtcactcaa caacctcagc cagagtgca attcttga gtagaacaag atttgggcca cttcaaat taatgaaggg ttacaaatg accitttga ttacttct gctatatac ccaatatgc aaatggaat gaaattcaac ttaaaaaagc atatgaaga atcaagggti ttgagtggti tcaaggtaacc caatttgaa tgtactct gtgcccaag ttggagtga alggtcacat ctaggctcac tgaaccttg caaccttg ctaccgggti caagagatt ccttgctca gctcccaag tagcttgaa tcaaggcacc tggaccaca tccagctaac tttttgta ttttttag agacagggti tcaatgti gggcacactg gttcaaat cctgaacct ggtatccg cgtccctggc cccaaaag cgtggatrac aggcaltgac caccatct gggctagggac cttaaat gtagagcalt ctcaaaatg tgggtcagtg agtagaacta caaaacata gtagtagggc agaaactga aagagggcag gtagatcag tgaagtgga tgggaaaaa gtaggggttg gtagaagggt tgggggtgt cgaagggttg attttct tcaagcaacta caggagatal gtagctcat aattcggagc cagaagtggt gcttgggtg agatatcti gacacatata calgtalaca tcatagtca aaacccagta gcatgttt acagcaataa aagaataat tagtaatta aaaaaaaa aaaaaaaa aaa</p>	A	Homo sapiens

660	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	MKVGVLWLIS FFFTFDGHGG FLGKNDDDIKT KKLIVNKKK HLGPEVEYQL LLQVYRDSK EKRDRLNFLK LKPPLL WSH GLIRIRAKA TTDCNSLNGV LQCTCEDSYT WFPSPCLDPQ NCYLHTAGAL PSCECHLNNL SQSVNFCERT KIWGTFKINE RFTNDLLNSS SAIYSKYANG IEIQLKKAYE RIQGFESVQV TQFRMSLLSP KLECNQGTI	P	Homo sapiens
661	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NM_030774	atgagtctt gcaactcac aacgtccacc ttgttgctta ttggtatccc aggattatagag aaagcccatt tctgggttgg cttccccctc ctttccattt atgtatggc aatgttttga aactgacagc tggcttcat cgtaaaggagc gaacgcagcc tgcacgctcc gaatgacctc ttcttcgca tgcctgagc catgaccgt gccttatcca catccacct gaactaagtc cttgccctt tctgtttga ttcccgagag attagcttg aggcctgtt taccagatg ttctttatc algcccttc agccattgaa tccaccatcc tgcctggocat ggccttgac cgttatgttg ccatctgcca cccactggcg catgtgcag tgcctcaaaa lacagttaaca gccacgattg gcatctggcg tggctccgc ggcacctt ttittccc actgcctctg ctgataacgc ggcctggcctt ctgcacatcc aatgtcctt cgcactccta ttgtgtccac caggatgaa tgaagtggc ctatgcagac actttgcca atgtgttala tggcttact gccattctgc tggctatggg cgtggagcgt atgttcatct cctgtccta ttcttgata atacgaacgg ttctgcaact gccttocaag tcaagagcggg ccaaggcctt tggaaacctg gttcacaca ttggtgtgt actgccttc tatgtccac ttatggcct ctgagtgtia caccgcttg gaaacagcct tcatccatt gtcgtgtg tcaagggtga catctaccgt ctgtgcctc ctgtcatcaa tccatcatc tatgttgcca aaaccaaaaa gatcagaaca cgggtgctgg ctatgtcaa gatcagctg gacaaggact tgcaggctgt gggaggcaag tga MSSCNFTHAT FVLIGIPGLE KAHFWVGFP LLSMYVVMFG NCIVVFIVRT	A	Homo sapiens
662	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	ERSLHAPMYL FLCMLAADL ALSTSTMPKI LALFWFDSRE ISFEACLQOM FFIHALSAIE STILLAMAFD RYVAICHPLR HAAVLNNTVT AQIGIVAVVR GSLFFPLPL LIKRLAFCHS NVLSHSCVH QDVMKLAYAD TLPNVYGLT ALLVMGVDV MFISLSYFLI RTVLQLPSK SERAKAFGTC VSHIGVLAF YVPLIGLSVV HRFGNLSLHPI VRVVMGDIYL LLPPVINPII YGAKTKQRT RVLAMFKISC DKDLQAVGGK	P	Homo sapiens
663	194743	FLJ14454	NM_032787	actttttca tgttctctt gagtgaagga tgaagaaatt gaaagcagag tatgcacct ttattaggag attcaaatcgt catctactg gattagcttc azaagtcta aaatacaaaag acatccatct gacagatcac tgaaggagagg actgtttt ctgttttga atagttccg attaaactt ttatgtcaag aagaataaaga gctagtatt tctacccag gagtgtgatt ggtgtggc ttacccatgg ctccigccg tgcctggaac cttaggggtgc tgggtgctgt cgtgtgtgga ctactgactg gcatcattt gggactgggc atctggagga ttgtgtacag gatccaaaaga ggaataacta ctctcactc aagcacctc acagagttct gcaaggatgg tggaaactgg gaaaatggca gatgtattg tacagaagag tgaagaggac tgaagtac aatgtcta ttgtgaaa atagtacct tatgggttt acttttgcca gaalccagat gggcagatlat ggaacatct tgcacaaatg tggcagaagat actccaaatg cgggcaatcc aatggcagtc cgtgtgtgca gtctctct atatggagag atagaattac aaaaatgac aatagggaat tgcacatgaaa atctgggaac cctggaaaag caggatagagg algtcacagc accacttat aacattctt ctgaagtoca gattttaaca tctgtatgcca ataaattaac tgcgtgaagac atcactatgt ctacggagt ggttgacagc alattcaaca cttccagaaa tgcctacct gaggcctaaaaga aatgtccat agtaacagat agtcaactcc tatgtccag tgaatgct ttcaagag ttgtgtctac tgcataatgat gatgcttia caagcttat tgaacaaatg gtagacttat cctgtctt gggtaataca tcaagtgtgg aacctaacat agcaatacag tcaagcaaat tctctcaga aatgtcgttg gggccttcaa atgtcgtct ctgtgtgcaag aaaggagctia gcagttctct agtttctagt tcaacttia tacatacaaa tgggtatggc cttaacccag atgcacagc tgaagttcag gtctgtctia atatgacgaa aaattacacc aagacatgct gctttttagt ttatcaaaaat gacaaagctt tcaatcaaa aacttiaca gctaaatcgg attttatga aaaaattatc tcaagcaaaa ctgatgaaa tgaagcaagat cagatgtct ctgtatcat ggtctttagt ccaagtiaa acccaaaaga atttcaact tatctatg cctgtgtctia ttggaattg tgaagcagg actgggacac atatggctgt caaaaagaca agggcacttga tggattctg cgtgtccgt gcaacatcac tactaattt gctgtattca tgaatttcaa aaaggattat caatatocca	A	Homo sapiens

664	194743	FLJ14454	NP_116176.1	<p>aalcaatga cataatacc aacgttggat gtcacatgic tgtactggt tgcgtctcda cagtatatt tcaatgattg accaggaagaag tcagaaaaac ctcagaaacc tgggtttgg tcaatctgic cataatcag tgaattica accctctt tgtgtttgga attgaaaaact ccaataagaa cttgcagaca agtgcagggg acatcaalaa tatgactt gacaalaa acataccacag gacagacacc</p> <p>attacatcc ogaatcccat gtcactgag atgcocgct tactcacta ttcttgta gtcacattia cctgggaacgc actcagcgt cacaagctct attactct aataaggacc atgaagcctc ttcctcgga ttcaatct tcatctcat taatggatg gggagtcca gctatagtag tggctataac agtgggaggt attatctc agaatggaaa taatccagga tgggaattag actacaggca agagaanaac tgcgtcagg caattccaga accaatggt gtialaaaaa tccgcctggt tgggtcatic atcgtaccgt taaccattat cctcatcagc aatgtgtta tgtttatc aatctgac aagtgctgt ggaagaataa ccagaacctg acaagacaa aaaaagtttc atccatgaag aagattgta gcacattatc tgtgcagt gttttgga ttactggat tctagacac ctagtgctag ttaatgata tagcatcagg atcgtctca gctacatatt ctcctttc aacatacac agggatgca aattttatc cgtacactg ttagaacaaa agcttccag agtgaagcti ccaaggtgt gatttgcta tgcctatg ggaagaagaa gtcattgct tcaatgacgc ggcggaggct gcgtgtaag atgataat tccataggc atgccaacc ttacatgaac gcttiaggct actggaaaacc tctccagta ctgaggaaat cacactctt gaaagtgaca atgcaagga aagcatctag acagtataac ttactgttg tgcctttt aatcacctg ttgagttt atctgttt ctccttatt tccagttct ctcagaaagt cttctcaat gtttttgt caggataag aattagataa aacctgtgt ttattat tggcataat ggcattgta tttttatc ttccaatag attgtact gaataagggt aagaattica cacaacatc aagagiacca tigtoccta tatcgttaaa tcttgtag acacttgac aaaaalgtag aacctataac aaattcttt acaagtact ataaaggaca caaagaagaa acttiaccti ccagaacaaa atgactcctg atgaacagtg tggggggtt tgcgttatg tatataact tgcacttg</p> <p>MASCRAWNLR VLVAVVCGLL TGILGLGIW RIVRIQRGK STSSSTPTE</p> <p>FCRNGGTWEN GRICITEWK GLRCTIANFC ENSTYMGFTF ARIPVGRYGP</p> <p>SLQTCGKDTN NAGNPMVRL CSLSYGEIE LQKVTIGNCN ENLETLEKQV</p> <p>EDVTAPLNNI SSEVQILTSD ANKLTAEINIT SATRVVGQIF NTSRNASPEA</p> <p>KKVAIVTVSQ LLDASEDAFQ RVAATANDDA LTTLEQMET YSLSLGNQSV</p> <p>VEPNIAQSA NFSSENA VGP SNVRFSVQKG ASSLVSSST FIHTNVVDGLN</p> <p>PDAQTELQVL LNMTKNVYTKT CGFVVYQNDK LFQSKTFTAK SDFSQKIIS</p> <p>KTDENEQDOS ASVDMVFSPK YNQKEFQLYS YACVYWNLSA KDWDITYGCQK</p> <p>DKGTDGFLRC RCNHTTNFAV LMTFKKDYQY PKSLDILSNV GCALSVTGLA</p> <p>LTVIFQIVTR KVRKTSVTWV LVNLCSMLI FNLLFVFGIE NSNKNLQTS</p> <p>GDINNIDFDN NDPRITDIN IPNPMCTAIA ALLHYFLLVT FTWNALSAQ</p> <p>LYLLLRITMK PLPRHFILFI SLIGWGPVPAI VVAITVGVYI SQNGNNPQWE</p> <p>LDYRQEKICW LAIPEPNGVI KSPLLWSFIV PVTILISNV VMFTISIKV LWKNNQNLT</p> <p>TKKVSSMKKI VSTLSVAVF GITWILAYLM LVNDDSRIV FSYIFCLFNT TQGLQIFLY</p> <p>TVRTKVFQSE ASKVLMLLS IGRKSLPSV TRPRLRVKMY NFLRSLPTLH</p> <p>ERFRLLTSP STEETLSES DNAKESI</p> <p>cgggcgccgc cagggtgc gaggcaccca cgtcttaaa aagagcacga cgcacccag gctcggttg gatgaagtc</p> <p>aaagctttaa tccctgaaa gggcagcaac aatgaatcca ttcatgcat ctgttgga cactctgcc gaactttaa acaaatcctg</p> <p>gaataaagag ttgctatc aaactgocag tgtgttggt acagtacc tccctccat gattggatt atctgtcaa cagggtcgtt</p> <p>tggcaacalc ctcatgtat tcaataat aagatccagg aaaaaaacag tccctgacat ctatctgc aacctggctg tggctgatt</p> <p>gggccacata gttggaagc cttttat tcaacaatgg gcccgggggg gagaaggggt gttggggggg cctctcga</p> <p>ccatcatcac atccctggat actglaacc aattgcttg tagtgccalc atgactgtaa tgaatgtaga caggctactt gcccctgccc</p>	Homo sapiens
665	194745	G Protein-Coupled Receptor SLT/MCH2	NM_032503	<p>cgggcgccgc cagggtgc gaggcaccca cgtcttaaa aagagcacga cgcacccag gctcggttg gatgaagtc</p> <p>aaagctttaa tccctgaaa gggcagcaac aatgaatcca ttcatgcat ctgttgga cactctgcc gaactttaa acaaatcctg</p> <p>gaataaagag ttgctatc aaactgocag tgtgttggt acagtacc tccctccat gattggatt atctgtcaa cagggtcgtt</p> <p>tggcaacalc ctcatgtat tcaataat aagatccagg aaaaaaacag tccctgacat ctatctgc aacctggctg tggctgatt</p> <p>gggccacata gttggaagc cttttat tcaacaatgg gcccgggggg gagaaggggt gttggggggg cctctcga</p> <p>ccatcatcac atccctggat actglaacc aattgcttg tagtgccalc atgactgtaa tgaatgtaga caggctactt gcccctgccc</p>	Homo sapiens

666	194745	G Protein- Coupled Receptor SLT/MCH2	NP_115892.1	<p>aaccatttgc actgacacgt tggagaacaa ggtacaagac calceggatc aatttggcc ttggggcagc ttctttalc ctggcattgc ctgtctgggt clactggaag gtcataaat ttaagacagg tgttgagagt tgtgttttg atttgacatc ccttgacgat gtactcgtt alacacttta ttgacgala acaactttt ttctccctc acccttgat ttgtgtgtc atattttat ttatgtctat acttggggaga tgtatcaaa gaataaggat gccagatgct gcaatccag tgaacaaa caparagtga tgaagttag aaagatgtgt ctgtgtgtgt tggtagtct talctgtgt gctgtccctt atcagtgtt acaactgttg aacttacaga tggaaacagc cacactggcc ttctatgttg gttatctt ctcatctgt ctacgtatg ccagcagcag caltaacct ttctctaca tctgtctgag tggaaattc cagaagcgc tgcctcaat ccaaaagaaga ggcactgaga aggaatacaa caataltggga aacactciga aatcacact ttaggaaagt acatgaltca ccatgagct agacatgct gctatctia ctggattat tgaagggc aggtgtacgc atatgtttat gccatctt ctgtgtact tgtgactct agcagcattgg aaagaaagtg taacatgca aatacaatga gcttaaltg ctaatgtaa aaaaaaaa aaaaaaaa</p> <p>MNPFHASCWN TSAELLNKSX NKEFAYQTAS VVDTVILPSM IGHICSTGLV GNILIVFTII P RSRKKTPVDI YICNLAVADL VHIUGMPFLI HQWARGGEWV FGGPLCTIIT SLDTCNQFAC SAIMTVMSVD RYFALVQPPR LTRWRTRYKT IRINLGLWAA SFILALPVWV YSKVIKFDG VESCAFDLTS PDDVLWYTLV LTTITFFPL PLILVCYILI LCYTWEYQQ NKDARCCNPS VPKQXVMKLT KMLVLVVVF ILSAAPYHVI QLVNLQMEQP TLAFFVGYL SICLSYASS INPFLYLLS GNFQKRLPQI QRRATEKEIN NMGNTLKSHF</p> <p>ccacacac aggcacgca tctgggtga tgaagtcaga cagcagcag ctgggtgagt gctaacgctc agataagcat ctgtgocatt gttgggactc cctgggtgc tgcacccg gacactgtct ctgtccccc calgtacaac gggctgtgt ggcgcaltga gggggacac accatccacgg tgaagccgc gctgtcatt gttgtcttg tctgtggcgc actaggcaat gggtgtccgc tgtgtgtt ctgtctcac atgaagacct ggaagccag cactgtttac cttttcaat tggcgtggc tgaattctc cttatgtct gctgtctt tgggacagac tattacctca gacgtagaca ctgggtctt ggggacaltc cctgtccagt ggggtcttc acgttgcca tgaacagggc cgggagcalt gtttctta cgtgtgtgtc tgggagcag tatttcaag tgggtcaacc ccaccagcg tgaacacta tctacccc ggtggcggct ggcactgtct gcaactgtg ggcctgtgtc atcctgggaa cagtgtatc ttgtgtggag aaacalcit gctgtcaaga gacggccgtc tctgtgaga gcttcatcat ggaagtggcc aatggctggc algtatcat gttccagctg ggttctta tgcctcgg calcatctia ttgtctct tcaagattgt tggagcctg agggcgggc agcagctggc capacaggt cggatgaaga aggcgacccg gttcatcag gttgtggca ttgtgtcat cacatgtac ctgcccagcg tgtctgtag acttattc ctgtggcgg tgcctgtgag tgcctgtgat cctctgtcc atggggcct gcacatacc ctacgtca cctacatga cagcaltg gacccctgg tatatttt tcaagcccc tctttccca aatcttcaa caagtcaa atctgcagc tgaacccaa gcagccagga cactcaaaa cacaaggcc ggaagagatg ccaatttga accctgtgc caggagtgc atcagtgg caaatgtt ccaagccag tctgtgtggc aatgggatc ccaattgt ggtgtgcat gaacagcag accaaca ctagaggaga tagagtggtg acttgaatt aactgtgt aaagggcgg gggcttga aatgcaccc cctttctia tggcagagc gttctgcga catgaactgc atctctca tctgtcga aatgaattc acacaact accittgg gaggttcag tt</p> <p>MYNGSCRIE GDITQVMPP LLIVAFVLA LGNGVALCGF CFHMKTWKPS P TVYLFNLAVA DFLMICLPF RTDYLLRRH WAFGDIPRV GLFTLAMNRA GSIVFLTVVA ADRYFKVVHP HHAVENTISTR VAAGIVCTLV ALVILGTVYL LLENHLCVQE TAVSCSEFIM ESANGWHDIM FQLEFFMPLG IILFCSFKIV WSLRRRQQLA RQARMKKA TRFIMVVAIVEI TCYLPVSAR LYFLWTVPS ACDPSVHGAL HITLSFTYMN SMLDPLVYVF SSPSPFKFYN KLKICSLKPK</p>	Homo sapiens
667	194756	Chemokine Receptor FKSG80/GPR81	NM_032554	<p>ctgtgocatt gttgggactc cctgggtgc tgcacccg gacactgtct ctgtccccc calgtacaac gggctgtgt ggcgcaltga gggggacac accatccacgg tgaagccgc gctgtcatt gttgtcttg tctgtggcgc actaggcaat gggtgtccgc tgtgtgtt ctgtctcac atgaagacct ggaagccag cactgtttac cttttcaat tggcgtggc tgaattctc cttatgtct gctgtctt tgggacagac tattacctca gacgtagaca ctgggtctt ggggacaltc cctgtccagt ggggtcttc acgttgcca tgaacagggc cgggagcalt gtttctta cgtgtgtgtc tgggagcag tatttcaag tgggtcaacc ccaccagcg tgaacacta tctacccc ggtggcggct ggcactgtct gcaactgtg ggcctgtgtc atcctgggaa cagtgtatc ttgtgtggag aaacalcit gctgtcaaga gacggccgtc tctgtgaga gcttcatcat ggaagtggcc aatggctggc algtatcat gttccagctg ggttctta tgcctcgg calcatctia ttgtctct tcaagattgt tggagcctg agggcgggc agcagctggc capacaggt cggatgaaga aggcgacccg gttcatcag gttgtggca ttgtgtcat cacatgtac ctgcccagcg tgtctgtag acttattc ctgtggcgg tgcctgtgag tgcctgtgat cctctgtcc atggggcct gcacatacc ctacgtca cctacatga cagcaltg gacccctgg tatatttt tcaagcccc tctttccca aatcttcaa caagtcaa atctgcagc tgaacccaa gcagccagga cactcaaaa cacaaggcc ggaagagatg ccaatttga accctgtgc caggagtgc atcagtgg caaatgtt ccaagccag tctgtgtggc aatgggatc ccaattgt ggtgtgcat gaacagcag accaaca ctagaggaga tagagtggtg acttgaatt aactgtgt aaagggcgg gggcttga aatgcaccc cctttctia tggcagagc gttctgcga catgaactgc atctctca tctgtcga aatgaattc acacaact accittgg gaggttcag tt</p> <p>MYNGSCRIE GDITQVMPP LLIVAFVLA LGNGVALCGF CFHMKTWKPS P TVYLFNLAVA DFLMICLPF RTDYLLRRH WAFGDIPRV GLFTLAMNRA GSIVFLTVVA ADRYFKVVHP HHAVENTISTR VAAGIVCTLV ALVILGTVYL LLENHLCVQE TAVSCSEFIM ESANGWHDIM FQLEFFMPLG IILFCSFKIV WSLRRRQQLA RQARMKKA TRFIMVVAIVEI TCYLPVSAR LYFLWTVPS ACDPSVHGAL HITLSFTYMN SMLDPLVYVF SSPSPFKFYN KLKICSLKPK</p>	Homo sapiens
668	194756	Chemokine Receptor FKSG80/GPR81	NP_115943.1	<p>ctgtgocatt gttgggactc cctgggtgc tgcacccg gacactgtct ctgtccccc calgtacaac gggctgtgt ggcgcaltga gggggacac accatccacgg tgaagccgc gctgtcatt gttgtcttg tctgtggcgc actaggcaat gggtgtccgc tgtgtgtt ctgtctcac atgaagacct ggaagccag cactgtttac cttttcaat tggcgtggc tgaattctc cttatgtct gctgtctt tgggacagac tattacctca gacgtagaca ctgggtctt ggggacaltc cctgtccagt ggggtcttc acgttgcca tgaacagggc cgggagcalt gtttctta cgtgtgtgtc tgggagcag tatttcaag tgggtcaacc ccaccagcg tgaacacta tctacccc ggtggcggct ggcactgtct gcaactgtg ggcctgtgtc atcctgggaa cagtgtatc ttgtgtggag aaacalcit gctgtcaaga gacggccgtc tctgtgaga gcttcatcat ggaagtggcc aatggctggc algtatcat gttccagctg ggttctta tgcctcgg calcatctia ttgtctct tcaagattgt tggagcctg agggcgggc agcagctggc capacaggt cggatgaaga aggcgacccg gttcatcag gttgtggca ttgtgtcat cacatgtac ctgcccagcg tgtctgtag acttattc ctgtggcgg tgcctgtgag tgcctgtgat cctctgtcc atggggcct gcacatacc ctacgtca cctacatga cagcaltg gacccctgg tatatttt tcaagcccc tctttccca aatcttcaa caagtcaa atctgcagc tgaacccaa gcagccagga cactcaaaa cacaaggcc ggaagagatg ccaatttga accctgtgc caggagtgc atcagtgg caaatgtt ccaagccag tctgtgtggc aatgggatc ccaattgt ggtgtgcat gaacagcag accaaca ctagaggaga tagagtggtg acttgaatt aactgtgt aaagggcgg gggcttga aatgcaccc cctttctia tggcagagc gttctgcga catgaactgc atctctca tctgtcga aatgaattc acacaact accittgg gaggttcag tt</p> <p>MYNGSCRIE GDITQVMPP LLIVAFVLA LGNGVALCGF CFHMKTWKPS P TVYLFNLAVA DFLMICLPF RTDYLLRRH WAFGDIPRV GLFTLAMNRA GSIVFLTVVA ADRYFKVVHP HHAVENTISTR VAAGIVCTLV ALVILGTVYL LLENHLCVQE TAVSCSEFIM ESANGWHDIM FQLEFFMPLG IILFCSFKIV WSLRRRQQLA RQARMKKA TRFIMVVAIVEI TCYLPVSAR LYFLWTVPS ACDPSVHGAL HITLSFTYMN SMLDPLVYVF SSPSPFKFYN KLKICSLKPK</p>	Homo sapiens

669	194757	G Protein-Coupled Receptor Ls194757	AL162032	QPGRHSKTQRP EEMPISNLGR RSCISVANSE QSQSDGQWDP HIVEWH gtcattgaggt gctcgcacag gacgtctcgg acgtagcggac acgttagcag caccagtagg ccaccaacag cagcaaccga gtcttcgtgt actggtcctt cctggacttc agctccggag aggggggtctg gtcggaaccac ggctgtgtggtc tcacgagaggg aaactcacc tactcgtct gccgtcgac tcacctacc aacttgcca tcctcagca ggtgtgtccg cggaggtgtca acattggcat cctcctgct gtcgacagag tcatctcaca gacagcggcc gacacacaca agatccatgg agaccocagt gcttcaagt tgaaggccaa ggcaggtggcc gctgtgtcgc ccatctggg tacctcgtgg gctttggcg tgcgtgtgt caacgggtgt gctgtgtgtt tccagtacat gttgtccagg ctcaactcc tgaacggagct gtccatttc cttcttatt gctctcga ttcagaggtgt agagccggct tcaagccaaa aacaaaggct tggctcctca cggagcagct cggcccgacc tccaaagcga agcccttcca ctggacatc algaaggga cccggccagg catggctcc accaagctca gcttggtgga caagagcagc cactctggcc accggctcga cctgtcagcc gttgtgagcc gggaggctgg accaagggcca ggctgtgctc agaacacac ccccaaaca gaaagaaag cccacattt gcccagggac cctctcgt cgtgtgtcgt gacatgggtgt tgtgtggccc gagacagctgt tctccctgt tgaactgtgc tgtggagaca cactgtcag cccagcagcc tgaagccacag gcccgtgtgt ggccctcgtc cttgcatoca cccgtgggtct gtagtgaattc ctgggggggt tcccaaggaca cagtgtgtcgt actgtgtgtgt tgccttgag cctcttca tcatcagca tcaagaccag cgaaggccag acactgggg ccgggtccgc agccacagga gggtgtgtgt agcctcgt cctgtgtgtgt gctgtgtgtgt tcaaggggaca agaggtgtgt caggttccca cggacccca gtcagggcca ggcagctgtgt gttgtgtgtgt gtagagcag cggaggttcc aggtgtgtgt tccatgtgtgt ccacagccgg cgtgtgtgtgt tctgtgtgtgt gttgtgtgtgt gttgtgtgtgt gttgtgtgtgt gttgtgtgtgt ggccctcgtc caagccgggc tggagccgtgt gttgtgtgtgt gttgtgtgtgt gttgtgtgtgt gttgtgtgtgt tgggggggtt cctcgtc acgtgtgtgt cgtgtgtgtgt cgtgtgtgtgt gttgtgtgtgt gttgtgtgtgt ctgggacac aggtgtgtgt cgtgtgtgtgt cgtgtgtgtgt gttgtgtgtgt gttgtgtgtgt gttgtgtgtgt tttcccaaga ggttctca tggctcagag gacactcag aggttctca tgggggagac accggggcag tagcacaggt cgtctcgtgt ggttccagag agaccggact gctgtgtgtgt cctcgtgtgt gttgtgtgtgt gttgtgtgtgt ttctgtgtgt aggtgtgtgt aggtgtgtgt aggtgtgtgt aggtgtgtgt aggtgtgtgt aggtgtgtgt tgaactgtgt gtagacaggt ttgggtgtgt aggtgtgtgt aggtgtgtgt aggtgtgtgt aggtgtgtgt gtgtgtgtgt cgtgtgtgt cgtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt tgaattatt cagccctcc acacccctat gttgtgtgt tttcagaggt aggtgtgtgt gttgtgtgt gttgtgtgt gtgtgtgtgt aatgtgtgt tttccctgt cgtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt ggcagggggag agcagctgt caggggtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt atgtgtgtgt tccacgggt cctgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt cgtgtgtgt gttgtgtgt ccatgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt agaaacagag tcatgtgtgt caggtgtgt aggtgtgt gttgtgtgt gttgtgtgt gttgtgtgt caatgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt ttatgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt aatgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt aaagaaagaa algtgtgtgt ttaggtgtgt gtagacatgt gtagacatgt gtagacatgt gtagacatgt cctgaaaaaa aaaa	A	Homo sapiens
670	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	HGVARDVLE SRTRKQHSEA TNSNRVFVY CAFLDFSSGE GVWSNHGICAL TRGNLTYSVC RCTHLTNFALMQVVPLEVN IGLIAVTRV ISQISADNYK IHGDPSAFKL TAKAVAVLLP ILGTSWVFGV LAVNGCAVVF QYMFATLNSL gtcattgaggt gctcgcacag gacgtctcgg acgtagcggac acgttagcag caccagtagg ccaccaacag cagcaaccga gtcttcgtgt actggtcctt cctggacttc agctccggag aggggggtctg gtcggaaccac ggctgtgtggtc tcacgagaggg aaactcacc tactcgtct gccgtcgac tcacctacc aacttgcca tcctcagca ggtgtgtccg cggaggtgtca acattggcat cctcctgct gtcgacagag tcatctcaca gacagcggcc gacacacaca agatccatgg agaccocagt gcttcaagt tgaaggccaa ggcaggtggcc gctgtgtcgc ccatctggg tacctcgtgg gctttggcg tgcgtgtgt caacgggtgt gctgtgtgtt tccagtacat gttgtccagg ctcaactcc tgaacggagct gtccatttc cttcttatt gctctcga ttcagaggtgt agagccggct tcaagccaaa aacaaaggct tggctcctca cggagcagct cggcccgacc tccaaagcga agcccttcca ctggacatc algaaggga cccggccagg catggctcc accaagctca gcttggtgga caagagcagc cactctggcc accggctcga cctgtcagcc gttgtgagcc gggaggctgg accaagggcca ggctgtgctc agaacacac ccccaaaca gaaagaaag cccacattt gcccagggac cctctcgt cgtgtgtcgt gacatgggtgt tgtgtggccc gagacagctgt tctccctgt tgaactgtgc tgtggagaca cactgtcag cccagcagcc tgaagccacag gcccgtgtgt ggccctcgtc cttgcatoca cccgtgggtct gtagtgaattc ctgggggggt tcccaaggaca cagtgtgtcgt actgtgtgtgt tgccttgag cctcttca tcatcagca tcaagaccag cgaaggccag acactgggg ccgggtccgc agccacagga gggtgtgtgt agcctcgt cctgtgtgtgt gctgtgtgtgt tcaaggggaca agaggtgtgt caggttccca cggacccca gtcagggcca ggcagctgtgt gttgtgtgtgt gtagagcag cggaggttcc aggtgtgtgt tccatgtgtgt ccacagccgg cgtgtgtgtgt tctgtgtgtgt gttgtgtgtgt gttgtgtgtgt gttgtgtgtgt gttgtgtgtgt ggccctcgtc caagccgggc tggagccgtgt gttgtgtgtgt gttgtgtgtgt gttgtgtgtgt gttgtgtgtgt tgggggggtt cctcgtc acgtgtgtgt cgtgtgtgtgt cgtgtgtgtgt gttgtgtgtgt gttgtgtgtgt ctgggacac aggtgtgtgt cgtgtgtgtgt cgtgtgtgtgt gttgtgtgtgt gttgtgtgtgt gttgtgtgtgt tttcccaaga ggttctca tggctcagag gacactcag aggttctca tgggggagac accggggcag tagcacaggt cgtctcgtgt ggttccagag agaccggact gctgtgtgtgt cctcgtgtgt gttgtgtgtgt gttgtgtgtgt ttctgtgtgt aggtgtgtgt aggtgtgtgt aggtgtgtgt aggtgtgtgt aggtgtgtgt aggtgtgtgt tgaactgtgt gtagacaggt ttgggtgtgt aggtgtgtgt aggtgtgtgt aggtgtgtgt aggtgtgtgt gtgtgtgtgt cgtgtgtgt cgtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt tgaattatt cagccctcc acacccctat gttgtgtgt tttcagaggt aggtgtgtgt gttgtgtgt gttgtgtgt gtgtgtgtgt aatgtgtgt tttccctgt cgtgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt ggcagggggag agcagctgt caggggtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt atgtgtgtgt tccacgggt cctgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt cgtgtgtgt gttgtgtgt ccatgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt agaaacagag tcatgtgtgt caggtgtgt aggtgtgt gttgtgtgt gttgtgtgt gttgtgtgt caatgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt ttatgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt aatgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt gttgtgtgt aaagaaagaa algtgtgtgt ttaggtgtgt gtagacatgt gtagacatgt gtagacatgt gtagacatgt cctgaaaaaa aaaa	P	Homo sapiens

671	194858	G Protein-Coupled Receptor LS194858	LG94710	QGLFIFL FHC LLNSEVRAAF KHKTKVWSLT SSSARTSNAK PFHSDLMNGT RPGMASTKLS PWDKSSSAH RVDLSAV tiagttcaag tcaaggtcga cactgtcttg gctgtcttgg tggtaggcaa tgcitggggcc gggactgtcc cggggggctc ttcccacag cccctgcagg cacttttgg cggctgacct ccaggggggct ggttagcgct gtagccacag cccatggct acggggcactg cggctgacct ggcacttct agggagagaga gggagacaga tgtccacagg cccatggctg ggcgtgtc ataggccagg actgagagaga gcagtgttgg cactgttggg cccacagcaa gcccgaagag cagcatgtct ccagccgtg ccctgtcgt cctccagga agggcccggg ccaggggcga gggctgtcag cggcacactg cccgtccag ccggcagatg tcctgcagct gggcggtggg agtggccagc acggcgacag agagagaggc agcacacccc acggcggggca gacagagccc atagacttg aggtacaggt agggggctgg gaaagatagcc tgggagctgc agttggcacc aggggtccag tggttccac ccaggcggg cagactggca aagagcagg gaccagcca ggtgagagc agggccacag gaaagtgctgg agtggctca ggaactgcat gtagcctcc cgtgtacca gcaagaggtt gggcaagcagg gaaagagagg agaaagtg agccaaagt agcagggagg aggaaccagta acccgcgga ctcgtgtcc acagccctgg caatgtggg aatgccagac ccgtgagcag ccaggccagc agtaggctca ggaagagca gcccagcagg gggctgtcga gggcgcggtc ccaggcgtatg ccaggggcta ggaagaggt cggcggtatg atgaggttg ctagggctg ccaggccag ggaagagccc aagagccct tgggaatggg gtcggcaccc tccagctg tgggggt cactgttg ctagggcag gggagagctg gggagagctg gggcgagc QDTRHGNRC RAGCSNSLT LKQAQQAIP APNSHACRLP LQDSPVPRK MTPNSTGEVP SPIPKGALGL SLALASLIIT ANLLALGIA GTAAACAATCW LLLPEPTAGW AAHSGGIATL PGLWNQSRG YWSCLLVLA PNFSFLSLA NLLL VHGERY MAVLRPLQPP GSIRLALLT WAGPLLFASL PALGWNHWTP GANCSSQAIF PAPYLEVY GLLLPVGA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPLPGPT LLSLLSLGSA SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPGTVP APALPTTQAA KAVSTWT tcaggccacag gaaagagtaa tcatgggtc cagagcactg gctagatgag tgggggggtt tgaacctaa tgttatccc atgttagcac agaaactgtg tggcagatga gaaaggtcag gctcagatg cagcaagaac tggattcaa actgtattg aggagcccca cctttgata ggtgactat tctgtgtg tctgtat gccccttia aatgagagag taaatcccac atggcagggt gggtggggaga atcagaagatc atacagctgg tgaacaaac tggtttctgt ttccaggggc accagactgg ggtttctgag cattggatica accatccag tcttgggtac agaaactgca ccaatcaac gacgtgagga gactctgc tacaagcaga ccctgagctt cagggggctg acgtgtcag ttccctgt cggctgtgaca ggaacggcgg tttgtctg gctctgggg tggcgatgc gcaaggaacg tgtctccatc taccctca accgtgtgc gggcgactc cttctctia gggggccacat tatagttcg ccgttaccg tcatcaat ccggccatcc atctccaaa tctcagtc tgtatgacc ttccctact ttatggct aagcagctg agcgccatca gcaaccagcg ctgctgtcc atctgtggc cactgtggc cggccccc gggccacat accgttalc gggtatgtt gttcctctt gggccctgtc ctgtgtcgg agtatctgg agtggatgt ctgtgactc ctgttagtg gttgtgatt tgtttgtt gaaacgtcag atttattac aatggcgtgg ctgttttt tatgtgtt tctgtgtgg tccagccctgg tctgtctgt cagggtatc tttgtatccc ggaagatgccc gctgaccagg gctagatga ccatctct cacaagtct gttctctc tctgtggctt gcccgtgg attcagtggg cctgttttc caggaatcac ctgtgtggct cttttatg tttgtatg ctatgttt ccatttctt gttcgtctt aacagcag gccaacccat cattttact ttgtgtggct cttttagga gctcaaat agggcagaac tgaagctgtt tctcagag gctctgcagg acacgctga ggttggatga ggttggaggtt ggtcttctca ggaagagctg gagctgtcgg gaaagcagtt ggaagatga ggaagagagct ctggccctgc agaaagagact ttgaagagcaa tgtgtccctg ccacccctga caattatg cattttct agcctctgc ctcaagaaatg	A	Homo sapiens
672	194858	G Protein-Coupled Receptor LS194858	ENSP00000053 533	QDTRHGNRC RAGCSNSLT LKQAQQAIP APNSHACRLP LQDSPVPRK MTPNSTGEVP SPIPKGALGL SLALASLIIT ANLLALGIA GTAAACAATCW LLLPEPTAGW AAHSGGIATL PGLWNQSRG YWSCLLVLA PNFSFLSLA NLLL VHGERY MAVLRPLQPP GSIRLALLT WAGPLLFASL PALGWNHWTP GANCSSQAIF PAPYLEVY GLLLPVGA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPLPGPT LLSLLSLGSA SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPGTVP APALPTTQAA KAVSTWT tcaggccacag gaaagagtaa tcatgggtc cagagcactg gctagatgag tgggggggtt tgaacctaa tgttatccc atgttagcac agaaactgtg tggcagatga gaaaggtcag gctcagatg cagcaagaac tggattcaa actgtattg aggagcccca cctttgata ggtgactat tctgtgtg tctgtat gccccttia aatgagagag taaatcccac atggcagggt gggtggggaga atcagaagatc atacagctgg tgaacaaac tggtttctgt ttccaggggc accagactgg ggtttctgag cattggatica accatccag tcttgggtac agaaactgca ccaatcaac gacgtgagga gactctgc tacaagcaga ccctgagctt cagggggctg acgtgtcag ttccctgt cggctgtgaca ggaacggcgg tttgtctg gctctgggg tggcgatgc gcaaggaacg tgtctccatc taccctca accgtgtgc gggcgactc cttctctia gggggccacat tatagttcg ccgttaccg tcatcaat ccggccatcc atctccaaa tctcagtc tgtatgacc ttccctact ttatggct aagcagctg agcgccatca gcaaccagcg ctgctgtcc atctgtggc cactgtggc cggccccc gggccacat accgttalc gggtatgtt gttcctctt gggccctgtc ctgtgtcgg agtatctgg agtggatgt ctgtgactc ctgttagtg gttgtgatt tgtttgtt gaaacgtcag atttattac aatggcgtgg ctgttttt tatgtgtt tctgtgtgg tccagccctgg tctgtctgt cagggtatc tttgtatccc ggaagatgccc gctgaccagg gctagatga ccatctct cacaagtct gttctctc tctgtggctt gcccgtgg attcagtggg cctgttttc caggaatcac ctgtgtggct cttttatg tttgtatg ctatgttt ccatttctt gttcgtctt aacagcag gccaacccat cattttact ttgtgtggct cttttagga gctcaaat agggcagaac tgaagctgtt tctcagag gctctgcagg acacgctga ggttggatga ggttggaggtt ggtcttctca ggaagagctg gagctgtcgg gaaagcagtt ggaagatga ggaagagagct ctggccctgc agaaagagact ttgaagagcaa tgtgtccctg ccacccctga caattatg cattttct agcctctgc ctcaagaaatg	P	Homo sapiens
673	194878	MrgX3 G Protein-Coupled Receptor LS194858	AY042215	QDTRHGNRC RAGCSNSLT LKQAQQAIP APNSHACRLP LQDSPVPRK MTPNSTGEVP SPIPKGALGL SLALASLIIT ANLLALGIA GTAAACAATCW LLLPEPTAGW AAHSGGIATL PGLWNQSRG YWSCLLVLA PNFSFLSLA NLLL VHGERY MAVLRPLQPP GSIRLALLT WAGPLLFASL PALGWNHWTP GANCSSQAIF PAPYLEVY GLLLPVGA AFLSVRLAT AHRQLQDICR LERAVCRDEP SALARALTWR QARAQAGAML LFGLCWGPYV ATLLSVLAY EQRPLPGPT LLSLLSLGSA SAAAVPVAMG LGDQRYTAPW RQPPKGACRG CGEPPGTVP APALPTTQAA KAVSTWT tcaggccacag gaaagagtaa tcatgggtc cagagcactg gctagatgag tgggggggtt tgaacctaa tgttatccc atgttagcac agaaactgtg tggcagatga gaaaggtcag gctcagatg cagcaagaac tggattcaa actgtattg aggagcccca cctttgata ggtgactat tctgtgtg tctgtat gccccttia aatgagagag taaatcccac atggcagggt gggtggggaga atcagaagatc atacagctgg tgaacaaac tggtttctgt ttccaggggc accagactgg ggtttctgag cattggatica accatccag tcttgggtac agaaactgca ccaatcaac gacgtgagga gactctgc tacaagcaga ccctgagctt cagggggctg acgtgtcag ttccctgt cggctgtgaca ggaacggcgg tttgtctg gctctgggg tggcgatgc gcaaggaacg tgtctccatc taccctca accgtgtgc gggcgactc cttctctia gggggccacat tatagttcg ccgttaccg tcatcaat ccggccatcc atctccaaa tctcagtc tgtatgacc ttccctact ttatggct aagcagctg agcgccatca gcaaccagcg ctgctgtcc atctgtggc cactgtggc cggccccc gggccacat accgttalc gggtatgtt gttcctctt gggccctgtc ctgtgtcgg agtatctgg agtggatgt ctgtgactc ctgttagtg gttgtgatt tgtttgtt gaaacgtcag atttattac aatggcgtgg ctgttttt tatgtgtt tctgtgtgg tccagccctgg tctgtctgt cagggtatc tttgtatccc ggaagatgccc gctgaccagg gctagatga ccatctct cacaagtct gttctctc tctgtggctt gcccgtgg attcagtggg cctgttttc caggaatcac ctgtgtggct cttttatg tttgtatg ctatgttt ccatttctt gttcgtctt aacagcag gccaacccat cattttact ttgtgtggct cttttagga gctcaaat agggcagaac tgaagctgtt tctcagag gctctgcagg acacgctga ggttggatga ggttggaggtt ggtcttctca ggaagagctg gagctgtcgg gaaagcagtt ggaagatga ggaagagagct ctggccctgc agaaagagact ttgaagagcaa tgtgtccctg ccacccctga caattatg cattttct agcctctgc ctcaagaaatg	A	Homo sapiens

674	194878	MrgX3 G Protein-Coupled Receptor	AAK91806.1	MDSTIPVLGT ELTPINGREE TPCYKQTLSE TGLTCIVSLV ALTGNAAVVLW LLGCRMRRNA VSIYILNLVA ADFLFLSGHI ICSPRLINI RHPISKILSP VMTPFYFIGL SMLSIASTER CLSILWPIWY HCRPRYLSS VMCVLLWALS LLRSILEWME CDFLFGADS VWCETSDFIT IAWLVFLCVV LCGSSLVLLV RILCGSRKMP LTRLVYVILL TVLVFLLCGL PFGIQWALFS RIHLWKVLF CHVHLVSIFL SALNSSANPI IYFFVGSFRQ RQNRQNLKV LQRALQDTP VDEGGGWLPQ ETLESGSRL EQ	P	Homo sapiens
675	194903	G Protein- Coupled Receptor GPCRB3	LG100657	tcagctggag ccgcagcgcc tggctgagtc cgaagagag gccctggaggt gctctgctgt gttgaggtct ggccggcaga ggatcacgtt gcatctggc agaaataacc caccgaagcc gctgctcagg cgtctcagcc cagccatcat gttggccgca ggcaggtact tgcgcctgta gacgctggcc gttggtgaga aggcgcatcca ggacacagag ttgagagagca gttggtgaggt gacacattt ggctctgtt agttctctgg caagtctta cccaggtgag tgcagggcaaa ggacacgtat ggaggtgaggt catgtgagag gaaagccagt atgaaagcca ggaggttgggt ctctgtgacac tcaagcatca ccaagatgggg gaaagcctgg tatccctag caggcagttg ggtccacacc accaagccaa ttgagagat aagcagcctgg gccgctgagc tgalcatcac aaacaggcca gcaocgtgggt ttgggacca ggccgtgggt aatgtgagtt ccttgggtt aaacttgag atgtatgata gttggagaga gccaactgt aggcagagca ggaaggtatgtt gaaacccaagg gcaagagaggg cctggcgtgag cagcacgca ggcctgttgg gttccaaa gaaagccatag aggtctggcc taccctggc caggggtggccc agcatagaga agcacaaggc ggccctgtt gacctacca cagggtgtgtc tgggtccag gcaaacaggc cagcagttcc aagcagcagc agcagcagca ggctgttgg tccagcagc accaagaggg gttgtcagc caaagccaaa aacacacacag tgcgctgggaa gcaagctctgg cttccctcag gttgccactc ttcttcca caaggtctggc atctgtgag gttgtgaaagg gaaaggtccaa gaaaggtctg agagccagat gaggcagat gaaatagat atagggtgctt gcaagatctt ggaggtatgt taccaggggca gttgagat actagtcata gttgggttgg gttgagccgg agttgggtgctt gaggccagc atttctcaa aatggcctgt ttattacag actctggaga cacacaggtc gttctgtat gttctgtat ccatgtgggg ttgtgcaac cctagggggg acctaaact ggtagctctg cccacatacc agagagagtt cgtatgtat ggaagcagctt gttccacagg gaaaggtcattg taaacctct ctctggcag catctcag aaccttct gttgaggtt gttctgtgtt tttctgtgt cctggacccc tggagagaga aggtgaggtat tctgtccct acagagatgg tgaagggaaa gaaaggtggcc cttggagacc aactaaggac ctggagctt agtacctaa ttgtctct gttctgacc ttgtgtct gttgtgcat gttgtcaaca gttgtgtt tttctgtc cagagacagct agtactgtia ttacggccaa gctgttcaa gtagctagctg tcttggcat gttgtcaaca aggtgacagtt gttgtgaggt gcaaacagggg aacaatagct atattcat agagaaagag gttgagat gttgagcagtt gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat tctaggct tcaaggtt aatttct ttttctt ttttga gaaaggtt cttgtgtc cagaggtt gttgtgtat gttgtgtat gcaatctgg ctacatgcaa cctcggctc ccaaggtt gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat aggtcacagc cacaagccc gttgtgtat tttgtat ttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gacctcagtt gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat ttttgggg gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat tctgtctca gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat acctgttgg caggtgtt cttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat ggtgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat actgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat ccccgggg gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat cacactcaa gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat ggcactgtia agaaagccac gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat ctctgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat gttgtgtat	A	Homo sapiens

Homo sapiens

P

**G Protein-
Coupled Receptor
GPCRB3**

194903

676

680	194905	G Protein- Coupled Receptor MGC7035	LR112	<p>ccctctcgcc ttacgctcc tcagcattca gttgtcaat gaagtgatga aagcttagag ccagttattia tacttgtgg ttaataact tgattccccc ttgttgttt tacaaaaa gaigtctct agaaaatga caaatagtaa aatgaacaaa accctacgaa agaattggcaa cagccagggt ggccggggcc tgcagtggtg cggcggtgic tagcaaggcc tgcggggtgt gccgagtgca ccacagggtt ctgagaacat ttacagaag tgcctgagac gcggagacat ggcgtggtt aatlgagct attcaatagc agtgacgcg tctctcagc caccaatgt cctgacac ctcocagc ccacagata acatcagctg aggtttttt cagtatgaac ctgtcttaaa tcaatctc aaagtgtgca caaaataaa gaataataa aaacaaaga aaggtgaaa aaaaaaaa aaaa MWSCSWFNGT XL VEELXACQ DLQLGLSLS LLGLVVGVPV GLCYNALLVL ANLHASKASMT MPDVYFVNMA VAGLVLSALA PVHLLGPPSS RWALWSVGE VHVVALQIPFN VSSLVAMYST ALLSLDHYIE RALPRTYMAS VYNTRHVCGF VWGGALLTSF SLLFYICSH VSTRALECAK MQNAEADAT LVFIGYVPA LATLYALVLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTPHY LILLGHTVII SRGKPVDAHY LGLLHFVKDF SKLLAFSSSF VTPLLRYMNM QSFPSKLQRL MKKLPCGDRH CSPDHMGVQQ VLA TCCGGACTAG TTCTAGACC GTGCGGGCCG CCAGCGCCG GGAATGTCCC CTGAATGCG CGCGGACGCG GCGACGCGC CTTTGGCAG CTTGGAGCAA GCCAACCGCA CCGGCTTTCC CTCTTCTCC GACGTCAAG GCGACCCCG GCTGGTCTG GCGCGGTGG AGACAACCGT GCTGTGCTC ATCTTTCAG TGTCGCTGT GGGCAACGTG TGCGCCCTGG TGCTGGTGG GCGCCGACGA CGCCGCGCG CGACTGCTG CTTGTGTA CTGCTTCTT CGCGGACCT GCTCTTATC AGGCTATCC CTCTGTGCT GCGCGTGGC TGGACTGAG CTCCCTGCT GGGCCCCGT GCTGCCACC TGCTCTTA CGTGATGACC CTGAGCGCA GCGTACCAT CTTACGCTG GCGCGGTCA GCCTGGAGGG CATGTGRCG ATCGRGACC TGGAGCGCG CGTGGGGGT CCTCCGCGG GGCGCGGGC AGTGCTGCT GCSCTCATCT GGGCTATT C GCGGTGCGC GCTCTGCTC TGTGCTCTT CTTCGAGTC GTCCCGCAAC GGCTCCCCG CGCGACCAG GAAATTCGA TTGACACT GATTGGCCC AGCATTCCT GAGATCTC GTGGGATGC TCTTTGTA CTTGAACTT CTGTGGCA GGAATGTTCA TTGTATCAG TTACTCAA ATTTACAGA TCACAAAGC ATCAAGGAAG AGGCTACCG TAAGCTGGC CTACTGGAG ACCACAG TCCGCTGTC CCAGCAGGAC TTCCGGCTCT TCCGACCT CTCTCTCTC ATGCTCTCT TCTTCATCAT GTGGAGCCC ATCATCATCA CCATCTCT CATCTGATC CAGAACTCA AGCAAGACCT GTTCATCTGG CCGTCCCT TCTTCTGGT GGTCCCTTC ACATTTGTA ATTACGCCCT AACCCATC CTTACAA CA TGACACTGT CAGGAATGAG TGAAGAAAA TTTTGTCTG CTCTGGTC CCAGAAAAG GAGCCATTT AACAGACACA TGTGCAAAA GAAATGACTT GTCGATTAT TCTGGTAAT TTTCTTATA GCGAGTTT TCACACCTGG CGAGCTGTGG CATGCTTTT AACAGAGTTT ATTCCAGTA CCCTCCATCA GTGACCTGT CTTTAAGAA ATGAACCTAT GCAATAGAC ATCCACAGC TCGTAAAT AAGGGGTGAT CACCAAGTTT CATAATTT TCCCTTTATA AAGGATTG TTGGCCAGGT GCAGTGGTTC ATGCTGTAA</p>	P	Homo sapiens
681	194907	G Protein- Coupled Receptor 14273	LD22826	<p>ccctctcgcc ttacgctcc tcagcattca gttgtcaat gaagtgatga aagcttagag ccagttattia tacttgtgg ttaataact tgattccccc ttgttgttt tacaaaaa gaigtctct agaaaatga caaatagtaa aatgaacaaa accctacgaa agaattggcaa cagccagggt ggccggggcc tgcagtggtg cggcggtgic tagcaaggcc tgcggggtgt gccgagtgca ccacagggtt ctgagaacat ttacagaag tgcctgagac gcggagacat ggcgtggtt aatlgagct attcaatagc agtgacgcg tctctcagc caccaatgt cctgacac ctcocagc ccacagata acatcagctg aggtttttt cagtatgaac ctgtcttaaa tcaatctc aaagtgtgca caaaataaa gaataataa aaacaaaga aaggtgaaa aaaaaaaa aaaa MWSCSWFNGT XL VEELXACQ DLQLGLSLS LLGLVVGVPV GLCYNALLVL ANLHASKASMT MPDVYFVNMA VAGLVLSALA PVHLLGPPSS RWALWSVGE VHVVALQIPFN VSSLVAMYST ALLSLDHYIE RALPRTYMAS VYNTRHVCGF VWGGALLTSF SLLFYICSH VSTRALECAK MQNAEADAT LVFIGYVPA LATLYALVLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTPHY LILLGHTVII SRGKPVDAHY LGLLHFVKDF SKLLAFSSSF VTPLLRYMNM QSFPSKLQRL MKKLPCGDRH CSPDHMGVQQ VLA TCCGGACTAG TTCTAGACC GTGCGGGCCG CCAGCGCCG GGAATGTCCC CTGAATGCG CGCGGACGCG GCGACGCGC CTTTGGCAG CTTGGAGCAA GCCAACCGCA CCGGCTTTCC CTCTTCTCC GACGTCAAG GCGACCCCG GCTGGTCTG GCGCGGTGG AGACAACCGT GCTGTGCTC ATCTTTCAG TGTCGCTGT GGGCAACGTG TGCGCCCTGG TGCTGGTGG GCGCCGACGA CGCCGCGCG CGACTGCTG CTTGTGTA CTGCTTCTT CGCGGACCT GCTCTTATC AGGCTATCC CTCTGTGCT GCGCGTGGC TGGACTGAG CTCCCTGCT GGGCCCCGT GCTGCCACC TGCTCTTA CGTGATGACC CTGAGCGCA GCGTACCAT CTTACGCTG GCGCGGTCA GCCTGGAGGG CATGTGRCG ATCGRGACC TGGAGCGCG CGTGGGGGT CCTCCGCGG GGCGCGGGC AGTGCTGCT GCSCTCATCT GGGCTATT C GCGGTGCGC GCTCTGCTC TGTGCTCTT CTTCGAGTC GTCCCGCAAC GGCTCCCCG CGCGACCAG GAAATTCGA TTGACACT GATTGGCCC AGCATTCCT GAGATCTC GTGGGATGC TCTTTGTA CTTGAACTT CTGTGGCA GGAATGTTCA TTGTATCAG TTACTCAA ATTTACAGA TCACAAAGC ATCAAGGAAG AGGCTACCG TAAGCTGGC CTACTGGAG ACCACAG TCCGCTGTC CCAGCAGGAC TTCCGGCTCT TCCGACCT CTCTCTCTC ATGCTCTCT TCTTCATCAT GTGGAGCCC ATCATCATCA CCATCTCT CATCTGATC CAGAACTCA AGCAAGACCT GTTCATCTGG CCGTCCCT TCTTCTGGT GGTCCCTTC ACATTTGTA ATTACGCCCT AACCCATC CTTACAA CA TGACACTGT CAGGAATGAG TGAAGAAAA TTTTGTCTG CTCTGGTC CCAGAAAAG GAGCCATTT AACAGACACA TGTGCAAAA GAAATGACTT GTCGATTAT TCTGGTAAT TTTCTTATA GCGAGTTT TCACACCTGG CGAGCTGTGG CATGCTTTT AACAGAGTTT ATTCCAGTA CCCTCCATCA GTGACCTGT CTTTAAGAA ATGAACCTAT GCAATAGAC ATCCACAGC TCGTAAAT AAGGGGTGAT CACCAAGTTT CATAATTT TCCCTTTATA AAGGATTG TTGGCCAGGT GCAGTGGTTC ATGCTGTAA</p>	A	Homo sapiens

682	194907	G Protein- Coupled Receptor 14273	LR116	<p>TCCCAGCAGT TTGGGCTGAG GTGGGTGGAT CACCTGAGGT CAGGAGTTCG AGACCAACCT GACCAACATG GTGAGACCCC CGTCTCTACT AAAAATAAAA AAAAAAATTA GCTGGGAGTG GTGGTGGGCA CCGTAATCC TAGCTACTTG GGAGGCTCAA CCACGAGAAAT CTCITGAACC TGGGAGGCAG AGGTGACAGT GAGCCGAGAT CGTGCCATTG CACTCCAACC AGGGCAACAA GAGTGAAACT CCATCTTAAA AAAAAAATAA AAAGATTGTG TATGGGTTCCTTTTAAATGT GAACTTTTIT AGTGTGTTTG TATATGATCA AATTATAA ATATTTATTT ATGACTGTTC AGCAAAAAA AAAAAAATAA AGGGCGG MSPECARAAG DAPLRLEQA NRTRFFPSD VKGDHRL VLA AVETTVLVLI FAVSLGNVC ALVLVARRRR RGATACLVN LFCADLLFIS APLVLA VRW TEAWLLGPVA CHLLFYVMTL SGSVTILTLA AVSLDRMVCV VMLQRGVRCR GRRARAVLLA LIWGYSAVAA LPLCVFFRVV PQRLLPGADQE ISICTLIWPT IPGEISWDVS FVTNLNLPV LVIIVSYSKI LQTTKASRKR LTVSLAYSRS HQIRVSQQDF RLFRITFLM VSFIMWSP I DITILLIQ NFKQDLVIWP SLPPVWVAPT FANSALNPIL YNNTLCRNEW KKIFCCTWFP EKGAITDTS VKRNDLSIIS G ITYSAISDEL RDKVRFPALL RTTPSADHHV EAMVQLMLHF RWNWIVLVVS SDTYGRDNGQ LLGERVARRD ICIAFQETLP TLQPNQNMST EERQRLVTIV DKLQOSTARV VVVFSPDLTL YHFFNEVLQ NFGAVVWIAS ESWAIDPVLH NLTELGHILGT FLGITIQSV IPGFSEFREW GPQAGPPPLS RTSQSYTCNQ ECDNCLNATL SFNTILRLSG ERVVYSVYSA VYAVAHALHS LLGCDKSTCT KRVPVPWQLL EEWKVNFTL LDHQFFDPQ GDVALHLEIV QWQWDRSQNP FQSVASYPL QRQLKNIKTS LHTVNTTPM SMCSCRQCSG QKKKPVGIVH CCFECIDCLP GTFLNHTPCP NNEWSYQSET SCFKRQLVFL EWHEAPTIAV ALLAALGFLS TLAILVFWR HFQTPIVRSA GGPMCFMLMT LLLVAYMVVP VYVGPVKVST CLCRQALFPL CFTICISCA VRSFQIVCAF KMASRFPRAV SYWVRYQGPY VSMAFITVLK MVIVVIGMLA RPQSHPRIDP DDPKITTIVSC NPNYRNSLLF NTSLDLALLSV VGFSFAYMCK ELPTNYNEAK FITLSMTIFYF TSSVSLCTFM SAYSGVLVTI VDLLVTVLNL LAISLGYFGP KCYMILFYPE RNTPAYFNSM IQGYTMRRD</p>	P	Homo sapiens
683	194908	G Protein-coupled Receptor Gpcrb4	LR117	<p>atgagcagca attatccct gctggggct ggcagcgt gctacgcgaa cggagatggg tccgtgtgga aaatccctt ctgcocggga tccggggtga tictgtacat agtgttggc ttggggctg tgcgtgctgt gtttggaac ctcctggga tgaattcaat cctccattc aagcagctgc actctocgac caattctc gtgcctctc tggcctgcgc tgaattctg gtcgggtgtga ctgctgoc cttcagcatg gtcaggacgg tggagagctg ctggatatt gggaagagt ttgtactt ccacacctgc tggatgtgg catttgna ctctctct ttactgt gcttctc cctgcagc cctgcagc taccatgg taccgacc cctgctctat cctaccagt taccgtalc tgtgtcagga attgtatca gcgtgtctg gatcctggcc ccatgtaca ggcgtgtgtgt gttctacaca ggtgtgtatg acgtgggct ggaggaatta tctgagccc taaactgtat agggaggtgt cagaccgtg taaatacaaa cttgggtgtg acagatttct tatccttct tataccac ttatttga taattctgta tggtaacata ttctgtgg ctgacgaca ggcgaataag atagataata ctggtagcaa gacagaatca tctcagaga gttacaagc cagagtgcc aggaagaga gaaagcagc taaaacctg ggggtcacag tggtagcatt tatgttca tggttacct atagcattga ttactaat gatgcctta tggccttatt aacctctgct tgaattatg agattgtctg ttggtgtgt tattataact cagoccatgaa tctgtgatt tatgttatt ttaccatg gtttaggaaa gcaataaaag</p>	P	Homo sapiens
684	194957	Trace Amine Receptor 4 (TA4)	AF380192		A	Homo sapiens

685	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	<p>ttattgtaac tggcaggtt ttaagaaca gtcagcaac calgaattg ttittgaac atataaa MSSNSSLLVA VQLCYANVNG SCVKIPSPG SRVILYVFG FGAVLAVFGN LLVMISILHF KQLHSPTNFL VASLACADEL VGVTVMPFSM VRTVESCWYF GRSCTFHTC CDVAFCYSSL FHLCFISDR YIAVTDPLVY PTKFTVSUSG ICISVSWILP LMYSGAVFYT GVYDDGLEEL SDALNCIGGC QTVVNQNWVL TDFLSFFIPT FIMULYGNL FLVARRQAKK IENTGSKTES SSESYSKARVA RRRKAAKTL GVTVAFMIS WLPYSIDSLI DAFMGFITPA CIYEICCWCA YNSAMNPLI YALFYPWFRK AIKVIVTGQV LKNSSATMNL FSEHI</p>	P	Homo sapiens
686	194958	Trace Amine Receptor 5 (TA5)	AF380193	<p>atgacagca attitcca acctgttg cagcttgct atgaggatgt gaagaatct tgaatgaac ctccattc tcttggtcc cggtaatic tgaacggc gttagctt gggcttgc tggctgatt tggaaatc tgaataiga cttctgct tcatitaa cagctgcaat ctcaacaa ttctcat gctctcgg cctgctga cttctgga ggtgacig tgaatctt cagatggc aggacgggg agagctcig gtaattiga gccaaattt gtaattca cagctcgt gattggcat ttgtaact ttctgtcc cacttgct tcatctgcat cgaaggatc atgttgga ctagctcc ggtatgct accaagtica cgtgctgt gtcgggaat tgcatacgg tgcctggt tgcctc acgtacagc gtcgtgct ctacaggt gcaatgag atggctgga ggaatgaia agtctcga acgtgtag tggctgcaa atattga gcaaggtc ggtgga gatttctg taltctat acctacct gtaataa ttcttaag taagattt ctatagcia aacacagc tataaaat gaaactia gtagcaagt agaatccc tcagagat ataaatcag agtggccaag agagagagga aagcagciaa aacctgggg gtcaggatc tagcaattg taltctag ttacgtata cagttagat attaatgt gctttg gctctgac cctgctat atctatgaa tttgctgt gtagctat tatactag ccatgaatc ttgattat gctatttt atcttggt taggaagcc ataaactia tttaagtgg agattia aagctagt catcaact tagttatt tgaataa</p>	A	Homo sapiens
687	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	<p>MTSNFSQPVV QLCYEDVNGS CIETPSPGS RVLYTAFSF GSLLAVFGNL LVMTSVLHFK QLHSPTNFLI ASLACADFLV GVTVMFLSMV RTVESCWYFG AKFCTLHSCC DVAFCYSSL HLCFCIDRY IVTDPVYA TKFTVSUSGI CISVSWILPL TYSGAVFYTG VNDDGLEELV SALNCVGGCQ IIVSQGWVLI DFLFFIPTL VMILYSKIF LIAKQQAIKI ETTSSKVESS SESYKIRVAK RERKAAKTLG VTVLAFVSW LPYTVDLID AFMGFLTPAY IYEICCWSA YNSAMNPLY ALFYPWFRKA IKLISGDVL KASSTISLF LE</p>	P	Homo sapiens
688	194989	MrgX4 G Protein-Coupled Receptor	AY042216	<p>tgcattgct tcttctgt ccatggaiga ccagctcag tcacaggt gtcacaoca cctcttg tttctgaat cctccactg aaagaaat tcagaccag gataataa tcatgggt caaagccctg gccgagag tgggggtgt tgaactaa tgtattccc atgacac agaatgt tgcagtaga gtagatgtag gctcagagt caacaagaac tggattcaa actggattg aggaaccca ccttggtaa gtagattat atctggagc cctgttct cttctta aatgaggaca gaaatcca tacgcaagg tggggag aatcagat gatacagct gtagacat ctgttggt ttccagggg caacagata gattctga gcatgcat aacgtcca gcttcgta caaatcag accaatcag ggaatgag agactctgt ctaatcag acctgagct tccgggtg gacgtgcat attccctg tggagagac aggaacagc gtagtctct ggctcggg ctaccagc cgcaggagc cgtctccat ctacatc aacctggcg cagcagact cctctcc agcttcaga ttacgtic gcatcagc ctacataa tcaagcat catccgcaa atccgttt ctgtagac ctctccac ttacagcc tgaatgct ggaagcagc agcaagc gctcgtc tgtctggt ccatctggt accgtggc ccgcccaca cactgtag cggctggtg tgcctgct tggggctgt cctctgt tgaatgct gtagggagt tctgact cctgttatt ggtctgatt ctatgtgt tgaacgca gattatcc cagctggcg gctgatttt ttatgtgt ttctgtgt ttcagctg gctctgt tcaagatct ctgtggatcc cggaaagc cgtgagac gctgtagct accatctg</p>	A	Homo sapiens

689	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	<p>tcacagtgct ggcttctctc ctctggggcc tgcctctcgg catictgggg gcoctaatti acaggatgca cctgaatttg gaaagtctat atgtcatgt ttaictgggt tgcattgccc tgcctctct aaacagatagt gcaacoccca tcaattact cttcgtgggc tcccttaggc agcgcaaaa taggcagaac ctgaagctgg ttctccagag ggctctgag gacaagccctg aggtggataa aggtgaaggg cagcttcttg aggaagacct ggagctgctg ggaagcagat tggggccatg agggagagcc tctgcccgtg cagtcagacg ggacttgag agcaacactg tctggcaac ctggacaat acatggctt ttctaggtg ttccctcag aaatgtctca gtggttaact aaggcttca aataatgt tatcaact gacatgca gtttcaacc ttggaaaga ttactgac agtacaagt tigg MDPTVPVFGT KLTPINGREE TPCYNQTL SF TVLTCTISLV GLTGNAVVLW P Homo LLGYRMRRNA VSIYILNLA ADFLFLSFQI IRSPRLINI SHLRKILVS VMFFPYFTGL sapiens SMLSAISTER CLSVLWPIWY RCRRPTHLSA VVCVLLWGLS LLFSMLEWRF CDFLFGADS SWCETSDFP VAWLIFLCVV LCVSSLVLLV RILCGSRKMP LTRLVVTLL TVLVFLCGL PFGILGALY RMHLNLELVY CHVYLVCMSL SSLNSSANPI IYFFVGSFRQ RQNRQNLKLV LQRALQDKPE VDKGEGQLPE ESLELSGSRL GP</p>
690	195015	G Protein- Coupled Receptor GPR82	AF411111	<p>atgaacaaca atacaacatg tatcaacca tctatgatct ctccatggc ttaccaatc attacaacc tcccttgat tcttggtgt ttggaaaca ctctctca atggatatt ttacaaaaa taggtaaaaa aacatcaacg cacatctacc tgcacaccc tggactgca aacttactg tggcagctg cagctctt atgagtatct attctgaa aggttccaa tgggaatata aatctgctca atgcagagtg gtcaatttc tgggaactct atccatgcat gcaagatgt tigtacgt ctaattua agttggatg ccataagccg ctatgctacc ttaatgcaa aggatctctc gcaagagact actcatgct atgagaaaaa attttatggc cattactga aaaaatttcg ccagoccaa tttctagaa aactatgcat ttacalatgg ggagtgtac tgggcataat cattocagt accgtatct actcagtcat agaggctaca gaaaggagaag agagccatg ctacaatgg cagatggac tagggaccaat gatctctcag atgcaggctc tcatgggaac cacattat ggatttctc tttagtagi actaacatca tactactct ttgtaagcca tctgagaaaa ataaagaacct gtacgtccat taaggagaaa gatitgacti acagtctgt gaaagacat ctttggica tccagatct actaatgt tgcctcttc ctatagat tttaaaccc atttttag ttctacaca aagagataac tgtcagcaat tgaattatt aalagaaca aaaaacatc tcaactgct tgcctggcc agaagttagca cagaccccat tatattcti ttatagaca aaacatcaa gaagacacta tataatctct ttacaaagt taatcagca catatgcaat catatggg a</p>
691	195015	G Protein- Coupled Receptor GPR82	AAL26482	<p>MNNNTTCIQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HIYLSHLVTA P Homo NLLVCSAMPF MSYFLKGFQ WEYQSAQCRV VNFLGTL SMH ASMFVSLIL sapiens SWIAISRYAT LMQKDSQET TSCYEKIFYG HLLKKFRQPN FARKLCIYW GVVLGIIIPV TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTTFI GFSFLVVLTS YYSFVSHLRK IRTCTSIM EK DLTYSSVKRH LLVIQILLIV CFLPYSIFKP IFYVLHQRDN CQQLNYLIET KNILTCLASA RSSTDPIIFL LLDKTFKKTL YNLFTKSNSA HMQSYG</p>

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	Species Name
1	127	5-HT1A Receptor	NM_000524	atggatgtgc tcagccctgg tcagggaac aacaccacat caccaccggc tcctttgag accggcgga acactactgg tatctccgac gtgaccgtca gctaccaagt gatcacctct ctgctgtgg gacgtctcat ctctcgcg gtgctgggca atgctgtcgt ggtggctgccc atcgccctgg agcgctccct gcagaacgtg gccaatattc ttattggctc ttggtgggtc accgacctca tgggtgctgg gtgtgtgctg cccatggcgc cgctgtatca ggtgctcaac aagtggacac tgggccaggt aacctgcgac ctgttcacgc cctcgacgt gctgtgctgc acctcatcca tcttgacact gtgcggccatc gcgctggaca ggtactgggc catcacggac cccatcgact acgtgaacaa gagagacccc cggccgcgtg cgctcatctc gctcacttgg cttattggct tctcatctc tatccgccc atcctgggct ggcgcacccc ggaagaccgc tcggaccocg acgcatgcac cattagcaag gatcatggct acactatcta ttcactctt ggagctttct acatcccgct gctgtcatg ctggttctct atggcgcat attccgagct gcgcgttcc gcatccgcaa gacgtcaaa aaggtggaga agaccggagc ggacaccccgc catggagcat ctcccgccc gcagcccaa aagagtgtga atggagagtc ggggagcagg aactggaggc tggcgctgga gagcaaggct ggggtgtctc tgtgcgcaa tggcgcggtg aggcaaggtg acgatggcg cgcctggag gtgctcgagg tgcaccaggt ggcaactcc aaagagcaact tgcctctgcc cagcaggct ggtcctacc ctgtgtcccc cgcctcttc gagaggaaa atgagcgcaa cgcgaggcg aagcgcaaga tggccctggc ccgagagagg aagacagtga agcgtctgg catcatcatg ggcacctca tctctgctg gctgcccctc ttcatcgtgg ctctgttct gcccctctgc gagagcagct gccacatgcc caccctgttg ggcgccataa tcaattggct gggctactcc aactctctgc ttaaccccg catttacgca tacttcaaca aggactttca aaacgcgtt aagaagatca ttaagtgtaa ctctgcccgc cagtga	A	Homo sapiens
2	127	5-HT1A Receptor	NP_000515.1	MDVLSPCQGN NTTSPAPFE TGGNTTGISD VTVSYQVITS LLLGLTIFCA VLGNACVWAA IALERSIQNV ANYLIGSLAV TDLMSVLVL PMAALYQVLN KWTLGQVTC LFTALDVLCC TSSILHLCAL ALDRYWAID PIDYVNRTP RPRALISLTW LIGFLISIPP ILGWRTPEDR SDPDACTISK DHGYTIYSTF GAFYIPLLLM LVLYGRIFRA ARFRIRKTVK KVEKTGADTR HGASPAPOPK KSVNGESGR NWRLGVESKA GGALCANGAV RQDDGGALE VIEVHRVGN KEHLPLPSEA GPTPCAPASF ERKNERNAEA KRKMALARER KTVKTLGIIM GTFILCWLPF FIVALVLPFC ESSCHMPTLL GAINNLWLGYS NSLLNPVIYA YFNKDFQNAF KKIKNFCR Q	P	Homo sapiens
3	128	5-HT1B Receptor	NM_000863	atggagggaac cgggtgctca gtgcgctcca cgcgcgcgcgc cgggctccga gacctgggtt cctcaagcca acttatectc tgctccctcc caaaactgca gcgccaagga ctacatttac caggactcca tctccctacc ctgaaaagta ctgctggtta tgctattggc gctcatcacc ttggccacca cgtctcccaa tgccttctgt atggcacag tgtaccggac ccggaactg cacaccccg ctaactacct gatgcctct ctgcgcgtca cgcacctgt tgtgtccatc ctggtgatgc ccatcagcac catgtacact gtcacggccc gctggacact gggccagggtg gtctgtgact tctggctgtc gtcggacatc actgtgtgca ctgcctccat cctgcacctc tgtgtcatcg cctgggaccg ctactgggc atcacgacg ccgtggagta ctacgctaaa aggactccca agaggcggc ggtcatgac gcgtgtgtgt ggtctcttc catctctatc	A	Homo sapiens

4	128	5-HT1B Receptor	NP_000854.1	<p> tgcgtgcgc cctttctctg gcgtcaggct aaggccgaag aggaggtgtc ggaatgcgtg gtgaacacg accacatcct ctacacggct tactccacgg tgggtgcttt ctacttcccc accctgctcc tcatcgccct ctatggccgc atctacgtag aagcccgctc cggattttg aaacagacgc ccaacaggac cggcaagcgc ttgacccgag ccagctgat aaccgactcc cccggttcca cgtctctcgt cactctatt aactcggcg ttcccagcgt gccagcgaa tccggatctc ctgtgtatgt gaaccaagtc aaagtgcgag tctccgacgc cctgctggaa aagaagaac tcatggccgc tagggagcgc aaagccacca agaccctagg gatcatttg ggagccttta ttgtgtgtg gctacccttc ttcacatct ccttagtgat gcctatctgc aaagatgcct gctggttcca cctagccatc tttagactct tcacatggct gggctatctc aactccctca tcaaccccat aatctatacc atgtccaatg aggactttaa acaagcattc cataaactga tacgttttaa gtgcacaagt tga MEEPQAQCAP PPGAGSETWV PQANLSSAPS QNCSAKDIY QDSISLPWKV LVMLLALIT P LATTLSNAFV IATVYRTRKL HTPANYLIAS LAVTDLLVSI LVMPISTMYT VTGRWTLGQV VCDFWLSSDI TCCTASILHL CVIALDRYWA ITDAVEYSK RPKRAAVMI ALVWVFSISI SLPPFFWRQA KAEDEVSECV VNTDHILYTV YSTVGAFYFP TLLIALLYR IYVEARSRL KQTPNRTGKR LTRAQLITDS PGSTSSVTSI NSRVPDVSE SGSPVYNQV KVRVSDALLE KKKLMAAPER KATKTLGIIL GAFIVCWLPF FIISLVMPIK KDACWFHLAI FDFFTWLGYL NSLINPIYT MSNEDEKQAF HKLIRFKCTS </p>	Homo sapiens
5	129	5-HT1D Receptor	NM_000864	<p> agccaaatgt gtggaggtct gtgggaagag agagccacct agcatgtccc cactgaacca A gtacgagaa ggccttcccc aggagcctc caacagatcc ctgaatgcca cagaacacctc agagcttgg gatccacaga cctccacggc gctcaagtc tcccttggcg tggctcttc cgtcatcaca ctggccacag tctctccaa tctcttctga ctcaccacca tcttactcac caggagctc cacacccctg ccaactacct gattggctcc ctggccacca cggacctctt ggttccatc ttggtaatgc ccatcagcat cgcctatacc atcaccaca cctggaaactt tgcccaaatc ttgtgtgaca tctggctgtc cctgacatc acgtgtgca cagctcccat cctgcatctc tgtgtcattg ccttgacag gtactgggca atcacagatg ccttggaata cagtaaacgc aggacggctg gccacggcg caccatgatc gccattgtct gggccatctc catctgcac tccatcccc cgtctctctg gcggcaggcc aaggcccagg aggagatgtc ggactgtctg gtgaacacct ctacagatctc ctacacatc tactccacct gtggggcctt ctacattccc tcgggtgtgc tcatcatcct atatggccgg atctaccggg ctgcccggaa ccgcattcctg aatccacct cactctatgg gaagcgttc accacggccc acctcatcac aggctctgcc gggctcctgc tctgtcgtc caactcagc ctccatgag ggcactcgca ctcggctggc tccctctct ttttcaacca cgtgaaatc aagcttctg acagtgcct ggaacgcaag aggatttctg ctgctcgaga aaggaagcc actaaaatcc tgggcatcat ctgggggcc ttatcatct ctgtgctgcc cttctctctg gtgtctctg tctccccat ctgcccggac tctgtctgga tccaccggc cctcttgac tcttccacct ggttaggcta tttaaaactc ctcataatc caataatc cactgtgtt aatgaagagt ttcggcaagc ttttcagaaa attgtccctt tccggaagc ctcctagtct tattcgatga ggtaaagaaa MSPLNQSAEG LPQEASNRSL NATETSEAWD PRTLQALKIS LAVLSVITL ATVLSNAFVL P TTILLTRKLH TPANYLIGSL ATTDLLVSIL VMPISIAITI THTWNFGQIL CDIWLSSDIT CCTASILHLC VIALDRYWA TDALEYSKRR TAGHAATMIA IWAISICIS IPPLEWRQAK </p>	Homo sapiens
6	129	5-HT1D Receptor	NP_000855.1	<p> tgcgtgcgc cctttctctg gcgtcaggct aaggccgaag aggaggtgtc ggaatgcgtg gtgaacacg accacatcct ctacacggct tactccacgg tgggtgcttt ctacttcccc accctgctcc tcatcgccct ctatggccgc atctacgtag aagcccgctc cggattttg aaacagacgc ccaacaggac cggcaagcgc ttgacccgag ccagctgat aaccgactcc cccggttcca cgtctctcgt cactctatt aactcggcg ttcccagcgt gccagcgaa tccggatctc ctgtgtatgt gaaccaagtc aaagtgcgag tctccgacgc cctgctggaa aagaagaac tcatggccgc tagggagcgc aaagccacca agaccctagg gatcatttg ggagccttta ttgtgtgtg gctacccttc ttcacatct ccttagtgat gcctatctgc aaagatgcct gctggttcca cctagccatc tttagactct tcacatggct gggctatctc aactccctca tcaaccccat aatctatacc atgtccaatg aggactttaa acaagcattc cataaactga tacgttttaa gtgcacaagt tga MEEPQAQCAP PPGAGSETWV PQANLSSAPS QNCSAKDIY QDSISLPWKV LVMLLALIT P LATTLSNAFV IATVYRTRKL HTPANYLIAS LAVTDLLVSI LVMPISTMYT VTGRWTLGQV VCDFWLSSDI TCCTASILHL CVIALDRYWA ITDAVEYSK RPKRAAVMI ALVWVFSISI SLPPFFWRQA KAEDEVSECV VNTDHILYTV YSTVGAFYFP TLLIALLYR IYVEARSRL KQTPNRTGKR LTRAQLITDS PGSTSSVTSI NSRVPDVSE SGSPVYNQV KVRVSDALLE KKKLMAAPER KATKTLGIIL GAFIVCWLPF FIISLVMPIK KDACWFHLAI FDFFTWLGYL NSLINPIYT MSNEDEKQAF HKLIRFKCTS </p>	Homo sapiens

7	130	5-HT1E Receptor	NM_000865	<p> AQEEMSDCLV NTSQISYTIY STCGAFYIPS VLLIILYGR I YRAARNRIIN PPSLYGKRFT TAHLITGSAG SSLCSLNSSL HEGHSHSAGS PLFFNHVKIK LADSALERKR I SAARERKAT KILGIILGAF IICWLPFFV SLVLPICRDS CWIHPALFDF FTWLGYLNSL INPIITYTFN EEFRAQFQKI VPRKAS atcgaatgtt gagagaagca gtgctctgat ccagctcagg agaaaaagga gcgggttccg A agtgagactt ctggagccag ctggactgac cggtttccc agtcggcgc gcgtgcacgc accgtccaca agagtctcag tcgccacagg tcggagtgcag cagcacagtc tcacctcatt gcaacctcgc cctcccggt tcgggggttc tcgcctcag cttccctagta gcgggattg caggcaactca ccaccatgcc cggctaattt ttgaaattt tagtggagac gggatttcac catgttgcc atgctggtct tgaacccccg acctcggatg attcgccccg ctcggcctcc caaagtgtcg gaattacagg cgaaccttca ctcagaagaa atgctgtggc ccttccctt accaacagaa aatggaacac aagagaccac atagctgaac aaattatagc ctcctacaa gtgagaaacc ttcgaggcta catagtcttc agccaaaagga aaataaccaa cagcttctcc acagtgtaga ctgaaacaag ggaacacatga acatcacaaa ctgtaccaca gagccacga tggctataag acccaagacc atcactgaga agatgctcat ttgcatgact ctggtgtgca tcaccacct caccacgttg ctgaacttgg ctgtgactat ggctattggc accaccaaga agctccacca gctgccaac taactaatct gttctctggc cgtgacggac ctctggtgg cagtgtctgt catgccccg agcatcatct acattgtcat ggatcgtcg agcttgggt acctctctgt tgaggtgtgg ctgagtgtgg acatgacctg ctgcacctgc tccatcctcc acctctgtgt catgccccg gacaggtact gggccatcac caatgctatt gaatacgcca ggaagaggac ggccaagagg gccgcgtga tgactcttac cgtctggacc atctccattt tcatctccat gccccctctg ttctggagaa gccacccctg cctaaagccct cccctagtc agtgcaccat ccagcacgac catgttatct acaccattta ctccacgctg ggtgcgtttt atatccctt gactttgata ctgattctct attaccggat ttaccacgag gccaaagagcc ttaccagaa agggggatca agtcggcact taagcaacag aagcacagat agccagaatt cttttgcaag ttgtaaactt acacagactt tctgtgtgct tgacttctcc acctcagacc ctaccacaga gtttgaagaag ttccatgcct ccacatcagg ccccccttc gacaaatgatc tagatcacc ccaggaaact cagcagatct ctgacacag ggaacggag gcagcacgca tcctgggggt gattctgggt gcattcattt tatcctggct gccatttttc atcaaaagat tgattgtggg tctgagcat tacacgtgt cctcggaagt ggcgacttt ctgacgtggc tcggttatgt gaattctctg atcaacccct tcctctatc gagttttaat gaagacttta agctggcttt taaaaagctc attagatgcc gagagcctac ttgactgta aaaagctaaa aggcacgact tttccagag cctcatgagt ggatgggggt aaggggtgca acttattaat tcttgaacat acttggttca ggagagtttg taagtatgt tggcttctgt tcttggttg ttgtttgtt ttgttctgt ttgttgagg attgttattt ggcgtgctgt tttctacctc tggctctatc tgtgatacat aatttcaat aaacattatc atacaaaaac aaaaaaaaa aaaaaaaaaa </p>	Homo sapiens
8	130	5-HT1E Receptor	NP_000856.1	<p> MNITNCTTEA SMAIRPKTIT EKMLICMTLV VITTLTLLN LAVIMAIGTT KKLHQPNYL P ICSLAVTDLL VAVLVMPLSI IYIVMDRWKL GYFLCEVWLS VDMTCCTCSI LHLCVIALDR YWAITNAIEY ARKRTAKRAA LMILTWTIS IFISMPPLFW RSHRRLSPFP SQCTIQHDHV IYTIYSTLGA FYIPLTLILI LYRIYHAAK SLYQKRGSSR HLSNRSTDSQ NSFASCKLTQ </p>	Homo sapiens

9	131	5-HT1F Receptor	NM_000866	<p>TFCVSDFTS DPTTEFEKFH ASIRIPPFDN DLDHGERQQ ISSTRERKAA RILGLILGAF ILSWLPFFIK ELIVGLSIYT VSSEVADFLT WLGYNLSLIN PLYTSFNED FKLAFFKLIR CREHT</p> <p>atggatttct taaattcatc tgatcaaaac ttgacctcag aggaactgtt aaacagaatg A ccatccaaaa ttctggtgtc cctcaactctg tctgggctgg cactgatgac acaactatc aactcccttg tgatcgctg aattatttg accgggaagc tgcaccatgac agccaatatc ttaaatttgg ccttgagcgt cacagatttt ctttggtgctg tctggtgat gcccttcagc attgtgtata ttgtgagaga gagctgatt atggggcaag tggctctgtga catttggctg agtgttgaca ttacctgctg cacgtgctcc atcttgcac tctcagctat agctttggat cgttatcgag caatcacaga tgctgttgag tatgccagga aaaggactcc aaagcatgct ggcattatga ttacaatagt ttggattata tctgttttta tctctatgcc tctctattc tgagggcacc aaggaaactag cagagatgat gaatgcatca tcaagcacga ccacattgtt tccaccattt actcaacatt tggagcttcc tacatcccac tggcattgat ttgatcctt tactacaaaa tatatagagc agcaagagaca ttataccaca agagacaaag aagtaggatt gcaaggagg aggtgaatgg ccaagtctct ttggagagtg gtgagaaaaa cactaaatca gttccacat cctatgtact agaaaagtct ttatctgacc catcaacaga ctttgataaa attcatagca cagtgaagag tctcaggtct gaattcaagc atgagaaatc ttggagaagg caaaagatct caggtacaag agaagcgaaa gcagccacta cctgggatt aatcttgggt gcatttgtaa tatgttgct tcttttttt gtaaaagaat tagttgttaa tgtctgtgac aaatgtaaaa ttctgaaga aatgtccaat ttttggcat ggcttgggta tctcaattcc cttataaaatc cactgattta cacaattctt aatgaagact tcaagaaagc attccaaaaa cttgtgcgat gtcgatgta g</p> <p>MDFLNSSDQN LTSEELNRM PSKILSITL SGLALMTTI NSILVIAIIV TRKLHPANY P LICSLAVTDF LVAVLMPFS IVYIVRESWI MGQVVCIDIWL SVDITCCTCS ILHLSAIALD RYRAITDAVE YARKRTPKHA GIMITIVWII SVFISMPPLF WRHQGTSRDD ECIKHDHIV STIYSTFGAF YIPLALIL YKIYRAAKT LYHKRQASRI AKEEVNGQVL LESEKSTKS VSTSYVLEKS LSDPSTDFDK IHSTVRSIERS EFKHEKSWRR QKISGTRERK AATTGLILG AFVICWLPFF VKELVWNVCD KCKISEMSN FLAWLGYLNS LINPLIYTF NEDFKKAFQK LVRRC</p>	Homo sapiens
10	131	5-HT1F Receptor	NP_000857.1	<p>gaattcgggt gagccagctc cgggagaaca gcatgtacac cagcctcagt gttacagagt A gtgggtacat caaggtgaat ggtgagcaga aactataacc tgttagtctt tctacacctc atctgctaca agttctggct tagacatgga tattcttgg gaagaaaaata cttctttgag ctcaactacg aactccctaa tgcaattaaa tgatgacac aggtcttaca gtaatgactt taactctgga gaagctaaaca cttctgatgc atttaactgg acagtcgact ctgaaaaatcg aaccacacct tctgtgaag ggtgcctctc accgtcgtgt cctccttac ttcactcca ggaaaaaaac tggctgctct tactgacagc cgtagtgtatt attctaacta ttgctgggaaa catactcgtc atcatggcag tgcctctaga gaaaaagctg cagaatgcca ccaactattt cctgatgtca cttgccatag ctgatatgct gctgggtttc cttgtcatgc ccgtgtccat gttaaccatc ctgtatgggt accgtggccc catgccgagc aagctttgtg cagctgtgat ttacctggac gtgctcttct ccacggcctc catcatgcac cctgcgcca tctcgtgga ccgctacgtc gccatccaga atcccatcca ccacagcgc tccaactcca gaactaaggc</p>	Homo sapiens
11	132	5-HT2A Receptor	NM_000621		Homo sapiens

12	NP_000612.1	5-HT2A Receptor	MDILCEENTS LSSTNSLMQ LNDTRLYSN DFNSEANTS DAFNWTVDSE NRTNLSCEG P	Homo sapiens
132	LSPSCLSLH	LQEKNSALL	TAVIILITIA GNILVIMAVS LEKKLQATN YFILSLAIAD	
			atttctgaaa atcatttgctg ttgggaccat atcagtaggt atatccatgc caataccagt ctttgggcta caggacgatt cgaaggtctt taaggagggg agttgcttac tcgccgatga taactttgtc ctgacgggt cttttgtgc atttttcatt cccctaacca tcatggtgat cacctacttt ctactatcca agtactcca gaaagaagt ctttgggtg taagtgatct tggcacacgg gccaaattag cttctttcag gcccggtcc tacacaggca ggaggactat aaagctcttc cagcggtcga tccataggga cccaggtctc cagagtctt tgtctcaga gcagtcctc agcaatgagc aaaggcagc caagggtctg gccatcgtct tcttcctgtt tgtgtgatg tgggtgccct tcttcacac aaacatcag gccgtcatct gcaagagtc ctgcaatgag gatgtcattg gggccctgct caatgtgtt gtttggatcg gttatctctc ttacgagtc aaccactag tctacacact gttcaacaag acctataggt cagccttttc acggtatatt cagtgtcagt acaaggaaaa caaaaaacca ttgcagttaa ttttagtgaa cacaataccg gcttggcct acaagtctag ccaactcaa atgggacaaa aaagaattc aaagcaagat gccaaagaca cagataatga ctgctcatt gttgctctag gaaagcagca ttctgaagag gcttctaaag acaatagcga cggagtgaat gaaaaggta gctgtgtgtg ataggtagt tggcgtggca actgtggaag gcacactgag caagttttca cctatctgga aaaaaaaat atgagattg aaaaaattag acaagcttag tggaaccaac gatcatatct gtatgcctca ttttattctg tcaatgaaaa ggggggttca atgtacaaa atgtgtgctt ggaaaaatgt ctgacagcat ttacagctgt agctttctga tacttattta taacattgta aatgatattg ctttaaaatg attcaccttt attgtataat tatgaagccc taagtaaatc taatttaact tctattttca agtggaaacc ttgctgtct tctgttctt gatgacatgg gattgagttg gttacctatt gccgtaaaata aaaaatagta taaatagtg aatttttatt gaataaatg gcctcttaaa aattatcttt aaacttact atggtatata ttttgaagg agaaaaaaa aaagccacta aggtcagttg tataaactct gtattgctaa gataattaaa tgaataactt gacaacattt ttcatagata ccattttgaa atattcaca ggttgcgtgc atttgcgtga tttcaagtta attctcagaa gtgaaaaaga cttcaaatgt tattcaataa ctattgctgc tttctcttct acttctgtg ctttactctg aatttccagt gtggtcttgt ttaataattg ttctcttagg taaactagca aaaggatgat ttaacattac caaatgcctt tctagcaatt gcttctctaa aacagcacta tcgaggtatt tggtaacttg ctgtgaaatg actgcatcat gcctgcactc ttttgagcag taaatgtata ttgatgtaac tgtgtcagga ttgaggatga actcaggttt ccggctactg acagtggttag agtccctaga catctctgta aaaagcaggt gactttccta tgacactcat caggtaaact gatgctttca gatccatcgg ttatactat ttattaaaac cattctgctt ggttccacaa tcatctatg agtgcacatt tatgtgtgaa gcaaatctt agatatgaga aataaaaaa taattaaaaa aaaaatccttg ccttcaaacg aaatggctcg gccaggcacg gaggtcgtg catgtaatcc tagcactttg ggaggctgag atggaggat cacttgaggc caagagtttg agaccaact gggtacacaa gtgagacctc cctgtctcta caaaaaaaat ctaataatct tctgacatt gtggcacaca actgtggctc cagctacagg ggaggctgag acgcaaggat cacttgagcc cagaagctca aggtgagc gagccaagt cacaccactg ccatttctc ctgggcaaca gagtgaacc ctatcacccc gaattc	

13	133	5-HT2B Receptor	NM_000867	<p>MLLGFLVMPV SMLTILYGYR WPLPSKICAV WIYLDVLFST ASIMHLCAIS LDRYVAIQNP IHHSRFNSRT KAFKLIIAVW TISVGISMPI PVFGLQDDSK VPEKGSCLLA DDNFVLIGSF VSFFIPLTIM VITYFLTIKS LQKEATLCVS FSFLPQSSLS SEKLFQRSIH REPGSYTGRR TMOQISNEQK ACKVLGIVFF LFVVMWCPFF ITNIMAVICK ESCNEDVIGA LLNVEFWIGY LSSAVNPLVY TLENKTYRSA FSRYIQCYK ENKKPLQLIL VNTIPALAYK SSQLQMGQKK NSKQDAKTTD NDCSMVALGK QHSEASKDN SDGVNEKVSC V</p> <p>tactaaccat gctgaccact gtctggaacg ggattgaatc acagaaaaac agcaaatggc A tctctcttac agagtgtctg aacttcaaaag cacaattcct gagcacattt tgcagagcac ctttgtttcac gttatctctt ctaactgggtc tggattacag acagaaatcaa taccagagga aatgaaacag attgttgagg aacagggaata taaactgcac tgggcagctc tctcgatact catggtgata ataccacaaa ttggtgaaa taccctgtt attctggctg ttactactga gaagaagctg cagtatgcta ctaattactt tctaattgcc ttggcgggtg ctgatttgct ggttgaggatt tttgtgatgc caattggcctt cttagacaata atgtttgagg ctatgtggcc cctcccaact gtcttatgct ctgcttggtt atttcttgac gttctctttt caaccgcatc catcatgcat ctctgtgcca ttctagtgga tcgttacata gccatcaaaa agccaatcca ggccaatcaa tataactcac gggctacagc attcatcaag attacagtgg tgtggttaat ttcaataggc attgccattc cagtccttat taaagggata gagactgatg tggacaaacc aaacaatatc acttgtgtgc tgacaaaagg acgttttggc gatttcacgc tctttggctc tctgttgcc tcttccacac ctcttgcaat tatgattgtc acctactttc tcaactatcca gactgtgtct acagttttcc aaagggatga aacaccttgc tcgtcacogg aaaggtggc aatgctggat ggttctcgaa aggacaaggc tctgcccac tcaggtgatg aaacacttat gcgaagaaca tccacaattg ggaataagtc agtgcagacc atttccaacg aacagagagc ctcaaaagtc ctagggattg tgttttctct ctttttgctt atgtgggtgc ccttctttat tacaaatata actttagttt tatgtgatc ctgtaaccaa actactctcc aaatgctcct ggagatatatt gtgtggatag gctatgttcc ctacaggagt aatcctttgg tctacacct cttcaataag acatttcgg atgcatttgg ccgatatatc acctgcaatt accggggccac aaagtcagta aaaaacttca gaaaacgctc cagtaagatc tacttccgga atccaatggc agagaactct aagtttttca agaaacatgg aattcgaaat gggattaaac ctgccatgta ccagagtcga atgaggctcc gaagttcaac cattcagctc tcaatcaatc ttctactaga tacgctcttc ctcaactgaa atgaagtgta caaaactgaa gagcaagta gttatgtata gcagaactgg cagttgtcat caaacataat gatgagtag atgatgaatg agatgtaaat gtgccagaa tatattatat aaagaatttt atgtcatata tcaaatcatc tctttaacct aagatgtaag tattaagaat atctaatttt cctaatttgg acaagattat tccatgagga aaataatttt atatagctac aaatgaaaaa atccaggcac tctggttaaa tttaagga ttcgaatgaa ataaagtcaa atcaataaat ttcaggtctt aaaaaaaa</p>	Homo sapiens
14	133	5-HT2B Receptor	NP_000858.1	<p>MALSYRVSEL QSTIPEHILO STFVHVISSN WSGLOTESIP EEMKQIVEEQ GNKLHWAALL P ILMVIPTIG GNTLVILAVS LEKKLQYATN YFLMSLAVAD LLVGLFVMPI ALLTIMFEAM WPLPLVLCFA WLFLDLVLFST ASIMHLCAIS VDRIAIAKKP IQANQYNSRA TAFIKITVWV LISIGIAIPV PIKGIETDND NNNITCVLT KERFGDFMLF GSAAFFTPL AIMIVTYFLT IHALQKKAYL VKNKPPQRLT WLTVSTVFQR DETPCSSPEK VAMLDGSRKD KALPNSGDET</p>	Homo sapiens

15	134	5-HT2C Receptor	nm_000868	V	LMRRSTIGK KSVQTSISNEQ RASKVLGIVF FLFLMWCFF FITNITVLVC DSCNQTTLOM LLEIFVWIGY VSSGVNPLVY TLFNKTFRDA FGRIYTCNRYR ATKSVKTLRK RSSKIYFRNP MAENSKFFPKK HGIRNGINPA MYQSPMRLRS STIQSSSIIL LDTLLLTENE GDKTEEQVSY	Homo sapiens
					accgcgcga ggtaggcgct ctgggtgcttg cggaggaagc ttccttctc agatgcaccg A atcttccga tactgccttt ggagcgcta gattgctagc ctggctgct ccattggcct gccttgccc tiacctgccg attgcatatg aactcttctt ctgtctgtac atcgttgtcg tcggagtcgt cgcgctcgtc gtggcgctcg tgtgatggcc ttctgccgt tagagttagt tagttagtta ggggccaaag aagaagaaag aagacgcgat tagtgacag atgctggagg tggtcagtta ctaagctaga gtaagatagc ggagcgaaaa gagccaaacc tagccggggg gcgcacggtc acccaaggga ggtcgactcg ccggcgcttc ctatcgccc gagctccctc cattccttc cctccgcga ggcgcgaggt tgcggcgcc agcgagcgc agtcagcgc accgactgcc gcgggctccg ctgggcgatt gcagcgtagt ccgtttctc tctagctgcc gcgcggcga ccgctgctg gtcttctcc ccgacgtag tgggttatca gctaacacc gcgagcatct ataacatagg ccaactgacg ccatccttca aaaaacta aaggatgata tgatgaacct agcctgttaa ttctgtctc tcaatttaa actttggtt cttaagactg aagcaatcat ggtgaacctg aggaatgcgg tgcattcatt ccttgtgac ctaattggcc tattggtttg gcaatgtgat atttctgtga gccagtagc agctatagta actgacattt tcaatacctc cgatggtgga cgcttcaat tcccagcgg ggtacaaaac tggccagcac tttcaatcgt catcataata atcatgacaa taggtggcaa catcctgtg atcatggcag taagcatgga aagaaaactg cacaatgcc ccaattactt cttaatgtcc tagccattg ctgatatgct agtgggacta ctgtgcatg ccctgtctct cctggcaatc ctttatgatt atgtctggcc actacataga tatttgctg ccgtctggat tcttttagat gttttatttt caacagcgtc catcatgcac ctctgcgcta tctgtgga tgggtatgta gcaataccta atcctattga gcatagcgt ttcaattcgc ggaactaagg catcatgaag attgctattg tttgggcaat ttctataggt gtatcagttc ctatccctgt gattggactg agggacgaag aaaagggtgt cgtgaacaac acgacgtgct tgcacaacga cccaaatttc gttcttattg ggctcctcgt agctttcttc ataccgctga cgattatggt gattacgtat tgcctgacca tctacgttct gcgcgacaa gctttgatgt tactgacagg ccacaccgag gaaccgcctg gactaagctc gatttctctg aagtgcgtga agaggaatac gcccaggaag gagaaactctg caaacccctaa ccaagaccag aacgcacgcc gaagaaagaa gaggagaga cgtcctaggg gcacatgca ggctatcaac aatgaagaa agcttctgaa agtcttggg attgttttct ttgtgttct gatcatgtgg tgccatttt tcataccaa tattctgtct gttctttgtg agaagtcctg taaccataag ctcatggaaa agcttctgaa tgtgtttgtt tggattggct atgtttgttc aggaatcaat cctctggtg atactctgt caacaaaatt taccgaaggg cattctccaa ctatttgcgt tgcaattata aggtagagaa aaagcctcct gtcaggcaga ttccaagagt tgcgcacct gctttgtctg ggtggagct taatgttaac atttatcggc ataccaatga accggtgac gagaaagcca gtgacaatga cccggtata gagatgcaag ttgagaattt agagttacca gtaaatccct ccagttgtgt tagcgaaagg attagcagt tgtgagaaag aacagcacag tcttttctc cggtacaaag tacatatgta ggaataattt cttctttaat tttctgtgtg gtcttaacta atgtaaatat tgctgtctga aaaagtgttt	A

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aattctctc ctttgtcaaa tggattttt tgtgaatggt tgcaatgtt tgtcttattc

16	134	5-HT2C Receptor	NP_000859.1	ctaatctcctg tatgttatcc actacaggtt ttatgagact tcctattaat ttattaaatt tattaaatg tgaaaaaaa aaaaaaaa aaaa VNIIRNAVHS FLVHLIGLLV WQDISVSPV AAIVTDIFNT SDGGRFKFPD GVQWNPALSI P VIIIMTIGG NILVIMAVSM EKCLHNATNY FLMSLAIDM LVGLLVMPLS LLAILDYVW PLPRYLCPWV ISLDVLESTA SIMHLCAISL DRYVAIRNPI EHSRENSRTK AIMKIAIWA ISIGSVPIP VIGLRDEKV FVNNTTCVLN DPNFVLIGSF VAFPIPLTIM VITYCLTIYV LRRQALMLH GHTEPPGLS LDFLKCKRN TAEENSANP NQDNARRRK KKERRPRGTM QAINNERKAS KVLGIVFFVF LIMWCPFFIT NILSVLCEKS CNQKIMEKLL NVFWWIGYVC SGINPLVYTL FNKIYRRAFS NYLRCNYKVE KKPPVRQIPR VAATALS GRE LNVNIYRHTN EPVIEKASDN EPGIEMQVEN LELPVNPSSV VSERISSV	Homo sapiens
17	136	5-HT4 Receptor	NM_000870	cggtgcttat ttctgtaat ggacaaactt gatgctaag tgagttctga ggaggtttc A gggtcagtg agaaggtggt gctgctcag ttctctcoga cggttatcct gatggccatc ttggggaacc tgctggtgat ggtggctgtg tgctgggaca ggcagctcag gaaaaataaa acaaattatt tcattgtatc tcttgctttt gcggtatcgc tggtttcgggt gctgggatg ccctttgggt ccattgagct ggttcaagac atctggattt atggggaggt gttttgctt gttcggacat ctctggacgt cctgctcaca acggcatoga ttttccacct gtctgcatt tctctggata ggtattacgc catctgctgc cagcctttgg tctataggaa caagatgacc cctctgcga tcgcattaat gctgggaggg tgctgggtca tccccacgtt tattctttt ctccctataa tgcaaggctg gaataacatt ggcataaattg attgataga aaagaggaag ttcaaccaga acttaactc tacgtactgt gcttctcctca tcaacaagcc ctacgccatc acctgcttg tgggtgacct ctacatccca ttctcctca tgggtctggc ctattaccgc atctatgtca cagctaagga gcatgcccc catagccaga gtttacaac ggcagagacc tcctccgaga gcaggcctca gtcggcagac cagcatagca ctcatcgcat gaggacagag accaaaagcag ccaagacctt gtgcatactc atgggttgct tctgctctg ctgggaccca ttctttgtca ccaatattgt ggatcctttc atagactaca ctgtccctgg gcaggtgtgg actgctttcc tctggctcgg ctatatcaat tccgggttga acccttttct ctacgcctc tgataaagt cttttagacg tgccttctc atcctcctc gctgtgatga tgagcgctac cgaagacctt ccattctggg ccagactgtc cctgttctca ccacaacct taatggatcc acacatgtac taaggagatg agtgagtggt ggtggccagt gggagagtca gtgtcaccg ccagcaactt ctcttttggg gctgctcag cccagtgaca cttaggcccc tgggacaatg acccagaaga cagccatgcc tccgaaagag gccaggtgcc taagctgctg ctgtgctg actgcaccg gcattctctt caactgaggg tttccgtccg aaccgggtg tcgctggg	Homo sapiens
18	136	5-HT4 Receptor	NP_000861.1	MDKLDANVSS EEGFGSVEKV VLLTFLSTVI LMAILGNLIV MVAVCWDRQL RKIKTNYFIV P SLAFADLLVS VLMPFGAIE LVQDIWIYGE VFCLVRTSLD VLLTTASIFH LCCISLDRIY AICCPPLVYR NKMTPLRIAL MLGGCWVIPT FISFLPMQAG WNNIGIIDLI EKRFENQNSN STYCVEMVVK PYAITCSVA FYIPFLMLV AYRIYIVTAK EHAHQIQMLQ RAGASSESRP QSADQSHTHR MRTEKAAKT LCIMGCFCL CWAPFFVTNI VDPFIDYTPV GQVWTAFLWL GYINSGLNPF LYAFLNKSFR RAFLIILCCD DERYRRPSIL GQTVPCSTTT INGSTHVLRD AVECGGQWES QCHPPATSPL VAAQPSDT	Homo sapiens
19	138	5-HT6	NM_000871	cccgagagcg cccattcacc cccctcacc acctccccg gttcccaact ccccgcaactc A	Homo

Receptor	138	5-HT6 Receptor	NP_000862.1	20	caga	sapiens
					tgacccggcc ggacgccccct cccctatctt gccgccccgc cctccagggt ggctctgtctc	sapiens
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					gcagagctga cccctgctg ccatctccag gcccttacc tgcagggatc atagctgact	
					caga	
					MVPEPGPTAN STPAWGAGPP SAPGSGWVA AALCVVIALT AAANSLILAL ICTQPALRNT P	Homo
					SNFFLVSLFT SDLMVGLVM PPAMLNALYG RWVLARGLCL LMTAFDVMCC SASILNLCIL	sapiens
					SLDRYLILS PLRYKLRTMP LRALALVLGA WSLAALASFL PLLLGWHELH HARPPVPGQC	
					RLLASLPFVL VASGLTFFLP SGAICFTYCR ILLAARKQAV QVASLTGMA SQASETLOVP	
					RTPRPGVESA DSRRLATKHS RKALKASLTL GILLGMFFVT WLPFFVANIV QAVCDICSPG	
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					RPGLSQOVL PLPLPPSDS DSDAGSGSS GLRLTAQLLL PGEATQDPPL PTRAAAAVNF	
					FNIDPAEPEL RPHPIGIPTN	

21	139	5-HT7 Receptor	NM_000872	<p>ccatggggcag cggcacacag cggcgggatg atggacgtta acagcagcgg ccgcccggac A</p> <p>ctctacgggc acctccgctc ttctctcttg ccagaagtgg ggcgcgggct gcccagcttg</p> <p>agccccgacg gtggcgccga cccggtcgcg ggtccctggg cgccgcacct gctgagcgag</p> <p>gtgacagcca gcccgcgcc cactgggac ggcggcccg acaatgcctc cggctgtggg</p> <p>gaacagatca actacggcag agtcgagaaa gtgtgatgac gctccatcct gacgtcctc</p> <p>acgctgctga cgatcgcggg caactgcctg gtgtgatct ccgtgtgctt cgtcaagaag</p> <p>ctccgccagc cctccaacta cctgatcgtg tccctggcgc tggccgacct ctggtggct</p> <p>gtggcggtca tgccttcgt cagcgtcacc gacctatcg ggggcaagt gatctttgga</p> <p>cactttttct gtaatgtctt catcgccatg gacgtcatgt gctgcacggc ctgatacatg</p> <p>acctgtgctg tgatcagcat tgacaggtac cttgggatca caaggccctt cacataacct</p> <p>gtgaggcaga atgggaaatg catggcgaag atgattctct ccgtctggct tctctccgcc</p> <p>ttcatcact tacctccact cttgggatg gctcagaatg taaatgatga taagtgtgc</p> <p>ttgatcagcc aggaactttg ctatacgatt tactctaccg cagtggcatt ttatatcccc</p> <p>atgtccgtca tgcctttcat gtactaccag atttacaagg ctgccaggaa gattgctgcc</p> <p>aaacacaagt ttctgggctt cctcagatg gagccagaca cgctcatcgc cctgaatggc</p> <p>atagtgaagc tccagaagga ggtggaagag tgtgaaacc ttctgagact cctcaagcat</p> <p>gaaaggaaaa acatctccat ctttaagcga gaacagaaa gaggccaccac cctggggatc</p> <p>atcgtcgggg cctttaccgt gtgctggctg ccatttttcc tctctcgac agccagaccc</p> <p>ttcatctgtg gcaactcctg cagctgcac ccaactgtgg tggagaggac atttctgtg</p> <p>taggctatg caaactctct cattaacct ttatatatg ccttcttcaa ccgggacctg</p> <p>aggaccacct atcgacgct gctccagtc cagtacgga atatacaacc gaagctctca</p> <p>gctgcaggca tgcataagc cctgaagctt cgtgagaggc cagagagacc tgagtgtgtg</p> <p>ctacaaaatg ctgactact tagaaaaa ggtcatgatt catgattga agcagaacaa</p> <p>tgag</p>	Homo sapiens
22	139	5-HT7 Receptor	NP_000863.1	<p>MMDVNSSGRP DLYGHLRSL LPEVGRGLPD LSPDGGADPV AGSWAPHLLS EVTASPAPTW P</p> <p>DAPPDNAGC GEQINYGRVE KVVIGSILTL ITLLTIAGNC LVWISVCFVK KLRQPSNYLI</p> <p>VSLALADLSV AVAVMPFVSV TDLIGGKWIF GHFFCNVPIA MDVMCCTASI MTLCVISIDR</p> <p>YLGITRPLTY PVRQNGKMA KMLSVWLLS ASITLPLFG WAQNVNDDKV CLISQDFGYT</p> <p>IYSTAVAFYI PMSVLMFYI QIYKAARKSA AKHKFPFPR VEPDSVIALN GIVKLQKEVE</p> <p>ECANLSRLK HERKNISIFK REQKAATTLG IIVGAFTVCW LPFFLLSTAR PFICGTSCSC</p> <p>IPLWVERTFL WLGYANSLIN PFYIAFFNRD LRTTYRSLQ CQYRNINRKL SAAGMHEALK</p> <p>LAERPERPEF VLQADYCRK KGHDS</p> <p>atgagtgtca gaagtgtgaa ggtgctctg tctgaatccc agagcctct ctcctctgt A</p> <p>gaggtgggca ggtgaggaag ggtttaacct cactggaagg aatccctgga gctagcggct</p> <p>gctgaaggcg tctgaggtgtg ggggacctg gacagaacag tcaggcagcc gggagctctg</p> <p>caagcttttg tgacctggg cgggctggg agcgtgctg cgggagccgg aggactatga</p> <p>gctgccgcgc gttgtccaga gccagccca cctgcggcc agcagccgg agctctgtt</p> <p>cctggaaact tgggcaactg ctctgggacc cctgcggcc agcagccagg atggtgctt</p> <p>cctggtgcc ctggtgtgcc gtctgtgat gtgccagcc tgtgccgcc atgccgcc</p> <p>ccatctcagc ttccagcc gctacatcg gcatcgaggt gctcatcgcc ctggtctctg</p> <p>tgcccgggaa cgtgctgtg atctgggcg tgaagggtga ccaggcgctg cgggatgcca</p>	Homo sapiens
23	272	Adenosine A1 Receptor	NM_000674	<p>atgagtgtca gaagtgtgaa ggtgctctg tctgaatccc agagcctct ctcctctgt A</p> <p>gaggtgggca ggtgaggaag ggtttaacct cactggaagg aatccctgga gctagcggct</p> <p>gctgaaggcg tctgaggtgtg ggggacctg gacagaacag tcaggcagcc gggagctctg</p> <p>caagcttttg tgacctggg cgggctggg agcgtgctg cgggagccgg aggactatga</p> <p>gctgccgcgc gttgtccaga gccagccca cctgcggcc agcagccgg agctctgtt</p> <p>cctggaaact tgggcaactg ctctgggacc cctgcggcc agcagccagg atggtgctt</p> <p>cctggtgcc ctggtgtgcc gtctgtgat gtgccagcc tgtgccgcc atgccgcc</p> <p>ccatctcagc ttccagcc gctacatcg gcatcgaggt gctcatcgcc ctggtctctg</p> <p>tgcccgggaa cgtgctgtg atctgggcg tgaagggtga ccaggcgctg cgggatgcca</p>	Homo sapiens

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Homo

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Adenosine A1 NP_000665.1

272

24

Receptor	Adenosine A2a Receptor	25	273	NM_000675		sapiens
LVIPLAILIN IGPQTYFHTC LMVACPVLIL TQSSILALLA IAVDRYLVRK IPLRYKMWVT						sapiens
PRAAVALIAG CWILSFVWGL TPMFGWNLS AVERAWANG SMGEPVIKCE FEKVISMEMYM						
VYENFFVWVL PPLLLMLIY LEVFLIRKQ LNKKSASSG DPQKYGKEL KIAKSLALIL						
FLFALSWLPL HILNCITLFC PSCHKSIILT YIAIFLTHGN SAMNPVIYAF RIQKFRVTEFL						
KIWNDFRCQ PAPPIDEDLP EERPD						
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26	273	Adenosine A2a Receptor	NP_000666.2	aa aa aa	<p> agtgacaaaag ctgggatcaa ggatagggag ttgtaacaga gcagtgccag agcatggggc caggtccacag gggagaggtt ggggctggca ggcactggc atgtgctgag tagcgacag ctaccagtg agaggccttg tctaactgcc ttctctcta aaggaatgt tttttctga gataaaaataa aaacgagcca catcgtgtt taagcttgc caaatgaaa aaaaaaaaa aa PFAITISTGF TVELAIIVLA ILGNVLVCWA VMLNSLNQNV TNYFVSLAA ADIAVGLVLA P AKGIIAICWV LSFAIGLTPM LGWNCGQPK EGNHSGQCG EGQVACLFD VPMNVMYF NFFACVLVPL LLMGLVYLRI FLARRQLKQ MESQPLPER ARSTLQKEVH AAKSLAIIVG LFALCWLPLH IINCFTFFCP DCSHAPLWLM YLAIVLSHTN SVNPFYIAY RIREFRQTFR KIIRSHVLRQ QEPFKAAGTS ARVLAHGS DGEQVSLRLNG HPFGVWANGS APHPERRPNG YALGLVSGGS AQESQNTGL PDVELLSHEL KGVCPPEPGL DDPLAQDGAG VS gggcaatttg ttagttatcc gccgccacca agacgcgca cggcgccctgg accggagggg A cccgcgcgg gcgcgaactt tgggctcggg cagatgggtg gtgctccgcc cagcccgaga cgggcggggc gcgcgggcaa tgggtgccgc ctcttgccc cggggggccc cgaccctgg gtcccgcca ccagcgccc cgggtctcac gcggtgcc ctcgagcgg gcgcggtccg ggcgtatgg ccatgcccgg cgtggcccga ccatgctgct ggagacacag gacgcgtgt tagggggcgc cgggggccc aatgcgcgc atctgcaga ccccccaa ctactcctg gtgctcctg acgtggcgt ggagctggtc atgcgcgcgc tttcgtgggc gggcaacgtg ctggtgtgcg ccgcgtggg cagcggaac actctcttcg gggctcttcg cccatcacc atagcctgg cgtggccga cgtggccgtg gggctcttcg gggctcttcg cccatcacc atagcctgg gctctgcac tgacttctac ggcgtcctct tcctgcctc cctcgtgctg gtgctcacgc agagctccat cttcagcctt ctggcgtgg cagtcgacag atacctggc atctgtgtcc cgctcaggta taaaagtgt gtccagggga cccgagcaag aggggtcatt gctgtcctct ggtccttg ctttggcatc gattgactc cttcctggg gtggaacagt aaagacagtg ccaccaacaa ctgcacagaa ccttgggatg gaaccacgaa tgaaagctgc tgccttgtga agtgtctct tgagaatgtg gtccccatga gctacatggt atattcaat ttctttgggt gtgttctgcc cccactgctt ataagtctgg tgatctacat taagatcttc ctggtggcct gcaggcagct tcagcgact gagctgatgg accactcag gaccacctc cagcgggaga tccatgcagc caagtcactg gccatgatgg tggggatttt tggcctgtgc tggttacctg tgcattgctg taactgtgc actcttttcc agccagctca gggtaaaaa aagcccaagt gggcaatgaa tatggccatt cttctgtcac atgccaattc agttgtcaat cccattgtct atgcttaccc gaaccgagac ttcgctaca cttttcaaa aattatctcc aggtatcttc tctgccaagc agatgtcaag agtgggaatg gtcaggctgg ggtacagcct gctctcgggtg tgggcctatg atctaggctc tgcctcttc caggagagaaga tacaatcca caagaaacaa agaggacacg gctggttttc atgtgaaaag atagctacac ctcaacagga aatgactgc ctctcttgag cacttccctg gagctaccac gtatctagct aatagtatg tgtcagtagt aggcctcaag gattgacaaa tataatttatg atctattcag ctgcttttac tgtgtggatt atgccaacag cttgaatgga ttctaacaga ctcttttgt tttaaaagtc tgcctgtgtt atggtggaaa attactgaaa ctattttact gtgaaacagt gtgaactatt ataattgcaa tactttttaa cttagaggca atggaaaaat aaaagttgac tgtactaaaa atg </p>	Homo sapiens
27	274	Adenosine A2b Receptor	NM_000676		<p> gggcaatttg ttagttatcc gccgccacca agacgcgca cggcgccctgg accggagggg A cccgcgcgg gcgcgaactt tgggctcggg cagatgggtg gtgctccgcc cagcccgaga cgggcggggc gcgcgggcaa tgggtgccgc ctcttgccc cggggggccc cgaccctgg gtcccgcca ccagcgccc cgggtctcac gcggtgcc ctcgagcgg gcgcggtccg ggcgtatgg ccatgcccgg cgtggcccga ccatgctgct ggagacacag gacgcgtgt tagggggcgc cgggggccc aatgcgcgc atctgcaga ccccccaa ctactcctg gtgctcctg acgtggcgt ggagctggtc atgcgcgcgc tttcgtgggc gggcaacgtg ctggtgtgcg ccgcgtggg cagcggaac actctcttcg gggctcttcg cccatcacc atagcctgg cgtggccga cgtggccgtg gggctcttcg gggctcttcg cccatcacc atagcctgg gctctgcac tgacttctac ggcgtcctct tcctgcctc cctcgtgctg gtgctcacgc agagctccat cttcagcctt ctggcgtgg cagtcgacag atacctggc atctgtgtcc cgctcaggta taaaagtgt gtccagggga cccgagcaag aggggtcatt gctgtcctct ggtccttg ctttggcatc gattgactc cttcctggg gtggaacagt aaagacagtg ccaccaacaa ctgcacagaa ccttgggatg gaaccacgaa tgaaagctgc tgccttgtga agtgtctct tgagaatgtg gtccccatga gctacatggt atattcaat ttctttgggt gtgttctgcc cccactgctt ataagtctgg tgatctacat taagatcttc ctggtggcct gcaggcagct tcagcgact gagctgatgg accactcag gaccacctc cagcgggaga tccatgcagc caagtcactg gccatgatgg tggggatttt tggcctgtgc tggttacctg tgcattgctg taactgtgc actcttttcc agccagctca gggtaaaaa aagcccaagt gggcaatgaa tatggccatt cttctgtcac atgccaattc agttgtcaat cccattgtct atgcttaccc gaaccgagac ttcgctaca cttttcaaa aattatctcc aggtatcttc tctgccaagc agatgtcaag agtgggaatg gtcaggctgg ggtacagcct gctctcgggtg tgggcctatg atctaggctc tgcctcttc caggagagaaga tacaatcca caagaaacaa agaggacacg gctggttttc atgtgaaaag atagctacac ctcaacagga aatgactgc ctctcttgag cacttccctg gagctaccac gtatctagct aatagtatg tgtcagtagt aggcctcaag gattgacaaa tataatttatg atctattcag ctgcttttac tgtgtggatt atgccaacag cttgaatgga ttctaacaga ctcttttgt tttaaaagtc tgcctgtgtt atggtggaaa attactgaaa ctattttact gtgaaacagt gtgaactatt ataattgcaa tactttttaa cttagaggca atggaaaaat aaaagttgac tgtactaaaa atg </p>	Homo sapiens

28	274	Adenosine A2b Receptor	NP_000667.1	MLLETQDALY VALELVIAAL SVAGNVLVCA AVGTANTLQT PTNYFLVSLA AADVAVGLFA P IPFAITISLG FCTDFYGCLE LACFVLVLTQ SSIFSLAVA VDRYLAICVP LRYKSILVTGT RARGVIAVLW VLAFIGLTP FLGWSKSDSA TNNCTEPWDG TTNESCCLVK CLFENVVPMMS YMYVFNFFGC VLPPLLLIMLV IYIKIFLVAC RQLQRTLEMD HSRITLQREI HAAKSLAMIV GIFALCWLPV HAVNCVTLFQ PAQGNKPKW AMNMAILLSH ANSVNPIVY AYNRDRFRT FKIISRYLL CQADVKSNG QAGVQPALGV GL	Homo sapiens
29	275	Adenosine A3 Receptor	NM_000677	atctttgctg caaaggctgg gtatggctg tgctcagcaa agcgtcaact cgtgcaagaa A cttagcagga atagttctgg ctaaggttag gaggtgcca ccaagtcctc tttttgttc ctctgctct cccgtttgcc tctttatcat gagatctttt tgctaagctg gcagaaagat tgcatagtca gtgcttccag cctgctccc acctgacct gcactgtcct ctggtccctg aatgaatgaa ccttgatacc caatcttgct tcgagccttc tctatgccac tcatggctcc tcttctgctc tttccatctt tttgctgaga gtctgagct ctgtacttcc tcttggtcca tctcacttcc tgaacacccc ctgaagaggg ttgcttatct tgatggaact caaaaagcca aaaagctgca ggcagagggc ttgaggacat ctgtttgggg aactaagagc agcagcactt tcagattcag tccatataga gctgtcctac agcattctgg aaacttgagg atgtgctgtg cataaagggg ctggaagtga cccacctgtg atgagccctt tctaaggaga aggttttcca agagatcacc ccaccagaaa aggttaggaa tgagcaagt gggaatttta gactgtcaact gcacatggac cctctgggaag acgtctggcg agagctaggc ccaactggccc tacagacgga tcttgctggc tcacctgtcc cttgtggaggt tccccggga aggcaagatg cccaacaaca gcactgctct gtcatggcc aatgttacct acatcacctt ggaaattttc attggactct gcgcctagt gggcaacgtg ctggtcatct cgttggtcaa gctgaacccc agcctgcaga ccaccacctt ctatttcatt gtctctctag ccttggtctga cattgctgtt ggggtgctgg tcactgcttt ggccattgtt gtcagcctgg gcatacaaat ccacttctac agctgcttt ttatgacttg cctactgctt atctttacc cgcctccat catgtccttg ctggccatcg ctgtggaccg atacttgcg gtaagctta ccgtcagata caagagggtc accactcaca gaagaatatg gctggccctg ggcctttgct ggtggtgtgc attcctgggt ggattgacct ccatgtttgg ctggaacatg aaactgacct cagagtacca cagaaatgtc accttccctt catgccaatt tgtttccgtc atgagaatgg actacatggt atacttcagc ttcctcacct ggattttcat cccctgggtt gtcatgtgcg ccatctatct tgacatcttt tacatcattc ggaacaaact cagtctgaac ttatctaaact ccaaagagag aggtgcattt tatggacggg agttcaagac ggctaagtcc ttgtttcttg ttcttttctt gtttgctctg tcatggctgc ctttatctat catcaactgc atcatctact ttaatgggtga ggtaccacag cttgtgctgt acatgggcat cctgctgctc catgccaact ccatgatgaa cccatctctc tatgcttata aaataaagaa gttcaaggaa acctaccttt tgatcctcaa agcctgtgtg gcttgccatc cctctgattc ttggacaca agcattgaga agaatcttga gtagtattcc atcagagatg actctgtctc attgaccttc agattccccca tcaacaaaca cttgagggcc tgtatgcctg ggccaaagga tttttacatc cttgattact tccactactc tgaggagcat tccagtgtc cccaattata tctcccccc tccactactc tcttctcca ctccattttt cctttgtcct ttctctctaa ttcagtgttt tggaggcctg acttggggac aacgtattat tgatattatt gtctgttttc ctcttccca atagaagaat aagtcattgga gcctgaagg tgcctagtgtg acttactgac aaaaggctct agttgggctg aacatgtgtg tgggtgtgac tcatttccat	Homo sapiens

Homo
sapiens

30 275 Adenosine A3 NP_000668.1 Receptor

gccattgtgg aattgagcag agaactgct ctggaggat gcctagaaga tgttggaac
 agaagaaata aactgagttt aaggggact taaactgctg aattcacctg tggatgttt
 tgagtaataa aagctaata g

MPNNSTALS ANVSLITIMEI FGLCAIVGN VLVICVVKLN PSLQTTTFYF IVSLALADIA P
 VGLVMPPLAI VVSLGITHF YSCLEMTCLL LIFTHASIMS LLAIAVDRL RVKLTVRKYR
 VTTHRIWLA LGLCWLVSL VGLTFMGWN MKLTSEYHRN VTFLSCQFVS VMMDVMYF
 SFLTWFIFPL VVMCAIYLDI FYIIRNKLSL NLSNSETGA FYGREFTAK SLFLVLFFA
 LSWLPLSIIN CIIFYNGEVP QLVLYMGILL SHANSMMNPI VYAYKIKKFK ETYLLILKAC
 VVCHPSDSLD TSIEKNSE

Homo
sapiens

31 309 Melanocortin NM_000529 2 Receptor (adrenocorticotrophic hormone) (MC2R)

atgaagcaca ttatcaactc gtatgaaac atcaacaaca cagcaagaaa taattccgac A
 tgcctcctg tggttttgccc ggaggagata tttttcacaa tttccattgt tggagtttg
 gagaatctga tgcctcctgct ggctgtgttc aagaataaga atctccaggc acccatgtac
 tttttcatctg tagcttgctgcat catatctgat atgtcgggca gcctatataa gatcttgaa
 aatatcctga tcatattgag aaacatgggc tatctcaagc cagctggcag ttttgaacc
 acagccgatg acatcatcga ctccctgttt gtcctctccc tgcttgctc catcttcagc
 ctgtcttga ttgctgcgga ccgtacatc accatcttcc acgcactgcg gtaccacagc
 atcgtgacca tgcgcgcgac tbtggtgttg cttacgggta tctggacgtt ctgcacgggg
 actggcatca ccatggtgat cttctcccat catgtgccc cagtgatcac cttcacgtcg
 ctgttccgc tgatgctggt cttcatcctg tgcctctatg tgcacatgtt cctgctggct
 cgatccaca ccaggaagat ctccacctc ccagagagca acatgaagg ggccatcaca
 ctgaccatcc tgcctggggt cttcatcttc tgcctggccc cctttgtgct tcatgtctc
 ttgatgacat tctgcccag taacccctac tgcctgctc acatgtctc cttccaggtg
 aacggcatg tgatcatgt caatgcctc attgacctc tcatatagc cttccggagc
 ccagagctca gggacgcat caaaaagat atcttctga gcaggtactg gtag
 MKHIINSYEN INNTARNSD CPRVLPPEI FFTISIVGL ENLIVLLAVF KNKNLQAPMY P
 FFICSLAISD MGLSKYLE NLLILRMNG YLKPRGSFET TADDIIDSIF VLSLLGSIFS
 LSVIAADRYI TIFHALRYHS IVTMRRTVAV LTIVTFTCTG TGITMVFISH HVPFVITFTS
 LFPLMLVFIL CLYVHMFLA RSHTRKISTL PRANMKGAT LTILLGVFIF CWAPFVLHVL
 LMTFCPSNPY CACYSLSFQV NGMLIMNAV IDPFIYAFRS PELRDAFKKM IFCSRYW

Homo
sapiens

32 309 Melanocortin NP_000520.1 2 Receptor (adrenocorticotrophic hormone) (MC2R)

tcctgcggc cgctcgttct gtgcccccg cccggcccacc gacggcccg cgttgagatg A
 actttccgcg atctcctgag cgtcagttc gagggacccc gcccgagacag cagcgacagg
 ggctccagcg cggcgcgcg cgggggcagc gggggcgcg cggccccctc ggaggggccc
 gcgttgggcg gcgtgcggg gggcgcggg ggcggcgcg gcgtggtgg cgcaggcagc
 ggcgaggaca accggagctc cgcgggggag cgggggcagc cggcgcgcg cggcgacgtg
 aatggcacgg cggccgtcg gggactggtg gtgagcgcg agggcggtg cgtggcgctc
 ttctggcag ccttcactc tatggcgtg gcaggtaac tgcctgtcat cctctcagtg
 gcctgcaacc gccacctgca gaccgtcac aactattca tctggaacct ggcgtggcc
 gacctgctgc tgagcgccac cgtactgcc tctcggcca ccatggaggt tctgggcttc
 tgggctttg gccgcgctt ctgcgacgta tgggcggcg tggacgtgct gtgctgcacg
 gcctccatcc ttagcctctg caccatctc gtggaccggt acgtggcggt gcgccactca

Homo
sapiens

33 376 Alpha 1d-adrenoreceptor nm_000678

tcctgcggc cgctcgttct gtgcccccg cccggcccacc gacggcccg cgttgagatg A
 actttccgcg atctcctgag cgtcagttc gagggacccc gcccgagacag cagcgacagg
 ggctccagcg cggcgcgcg cgggggcagc gggggcgcg cggccccctc ggaggggccc
 gcgttgggcg gcgtgcggg gggcgcggg ggcggcgcg gcgtggtgg cgcaggcagc
 ggcgaggaca accggagctc cgcgggggag cgggggcagc cggcgcgcg cggcgacgtg
 aatggcacgg cggccgtcg gggactggtg gtgagcgcg agggcggtg cgtggcgctc
 ttctggcag ccttcactc tatggcgtg gcaggtaac tgcctgtcat cctctcagtg
 gcctgcaacc gccacctgca gaccgtcac aactattca tctggaacct ggcgtggcc
 gacctgctgc tgagcgccac cgtactgcc tctcggcca ccatggaggt tctgggcttc
 tgggctttg gccgcgctt ctgcgacgta tgggcggcg tggacgtgct gtgctgcacg
 gcctccatcc ttagcctctg caccatctc gtggaccggt acgtggcggt gcgccactca

34	Alpha 1d- adrenoceptor	NP_000669.1	376	ctcaagtacc cagccatcat gaccgagcgc aaggcgggcg ccatcctggc cctgctctgg gtcgtagccc tgggtggtgc cgtaggcccc ctgctgggct ggaaggagcc cgtgccccct gacgagcgct tctgcggtat caccgaggag gcgggctacg ctgtcttctc ctccgtgtgc tcttctacc tggccatggc ggatcatgtg gtcatgtact gccgcgtgta cgtgggtcgcg cgagcacca cgcgcagcct cgagcagggc gtcaaagcgc agcagggcaa ggcctccgag gtgggtctgc gcatccactg tgcggcgcg gccacgggcg ccgacggggc gcacggcatg cgacggcca agggccacac ctccgcagc tgcgtctcgc tgcgcctgct caagtctcc cgtgagaaga aagcgcccaa gactctggcc atcgtcgtgg gtgtcttctg tctctgctgg tcccccttct tctttgtcct gccgtcggc tcttgttcc cgcagctgaa gccatcggag ggcgtcttca aggtcatctt ctggctcggc tacttcaaca gctgcgtgaa ccgctcatc taccctgtt ccagccgcga gttcaagcgc gccttctcc gtctcctgc ctgccagtgc cgtcgtgcc ggcgcgcgcg cctctctgg cgtgtctacg gccaccactg gcgggctccc accagggcc tgcgccagga ctgcgcccc agtcggggc acgcgcccc cggagcgccg ctggccctca ccgcgtccc cgaccccgac ccgaagccc caggcacgcc cgagtgcag gtcccggtcg ccagccgtcg aaagccacc agcgccttc gcgagtggag cgtcgtggg ccgttcgga gacccacgac ccagctgcgc gccaaagtct ccagcctgtc gcacaagatc cgcccgggg gcgcgcagcg cgcagaggca gcgtgcgcc agcgtcaga ggtggaggct gtgtccctag gcgtccaca cgaggtggcc gagggcgcca cctgccaggc ctacgaattg gccgactaca gcaacctacg ggagaccgat atttaaggac ccagagcta ggcgcggag tgtctgggc ttgggggtaa gggggaccag agagcgggc tgggtgttcta agagccccg tgcaaatcgg agacccgga actgatacag gcagctgctc tgtgacatcc ctgaggaact gggcagagct tgaggtgga gcccttgaaa ggtgaaaaagt agtggggccc cctgctggac tcaggtgcc agaaactctt tcttagaagg gagaggtcgc gggctccgtg gggccttttg ctcccaatcc ctatttgaga aacactgcc catcctccat gccctgaacc ctgagtagac agccccaaagc atggccagga aggcctgccc MTRDRLSVS FEGRPDSSA GSSSAGGGGG SAGGAAPSEG PAVGGVPGGA GGGGVVVGAG P SGEDNRSSAG EPGSAGAGGD VNGTAAVGGI VVSAQGVVG VFLAAILMA VAGNLLVILS VACNRHLQTV TNYFIVNLAV ADLLSATVL PFSATMEVLG FWAFFRAFCV VMAAVDVLCC TASILSLCTI SVDRYVGVVRH SLKYPAMTE RKAAAILALL WVVALVSVG PLLGWKEPVP PDERFCGITE EAGYAVFSSV CSFYLPMAVI VMYCRVYV ARSTTRSLEA GVKRERKAS EVLRIHCRG AATGADGAHG MRSAGHTFR SLSVRLKF SREKKAATL AIVGVFVLC WPFEEFVLPL GSLFPQLKPS EGVFKVIFWL GFYNSCVNPL IYPCSSREFK RAFRLRLRCQ CRRRRRRRPL WRVYGHWRRA STSGLRQDCA PSSGDAPPGA PLALTALPDP DPEPPGTPEM QAPVASRRKP PSAREWRLL GPFRRPTQL RAKVSSLSHK IRAGGAQRAE AACAAQRSEVE AVSLGVPHEV AEGATCQAYE LADYSNLRET DI 35 Alpha 1b- adrenoceptor	NM_000679	377	agccagggaga cgtgctcggc gctgggctgc ccgggggaga tgactcctgc caggaggcg A cctctgggaa gaagaccac gaagaccac aaagtccaggg cagctgagga gccttcgccc cagcccttcc gagcccaatc atccccagg ctatgaggg cggactctaa gatgaatccc gacctggaca ccggccaca cactcagga cctgcccact ggggagagt gaaaaatgcc aacttcaactg gccccaacca gacctcagc aactccacac tgcctcagct ggcacatcac agggccatct ctgtgggcct ggtgctgggc gccttcatcc tctttgccat cgtggggaac	Homo sapiens
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36	Alpha 1b- adrenoceptor	NP_000670.1	<p>atcctagtca tcttgtctgt ggctgtcaac cggcacctgc ggacgcccac caactacttc attgtcaacc tggccatggc cgactgtctg ttgagcttca ccgtccctgc cttctcagcg gccctagagg tgcctggcta ctgggtgctg gggcgatct tctgtgacat ctgggcagcc gtgatgtcc tgtctgcac agctccatt ctgagcctgt gcgccatctc cctgcatcgc tacatgggg tgcctactc tctgagtat cccacgtgtg tcacccgag gaaggccatc ttggcgctg tcaagtctg ggtctgtcc acgtcatct ccacgggccc tctctctggg tggaaggagc cggcacccaa cgtgacaaag gagtgcgggg tcaccgaaaga acccttctat gccctcttct cctctctggg ctctctctac atccctctgg cggctattct agtcatgtac tgccgtgtct atatagtggc caagaagaac accaagaacc tagaggcagg agtcatgaag gagatgtcca actccaagga gctgacctg aggtaccatt ccaagaactt tcacgaggac acccttagca gtaccaaggc caaggccac aacccacgga gttccatagc tgtcaaaactt tttaagtctt ccagggaata gaaagcagct aagacgttgg gcatgtgtgt cggatgttgc atcttgtctt ggctacctt cttcatcgtt ctaccgttg gctccttgtt ctcacacctg aagcccccg acgctgtgtt caaggtgtgt tctgtgctgg gctacttcaa cagctgcctc aaccccatca tctacctatg ctccagcaag gatttcaagc gcgcttctgt gcgcatcctc gggtgccagt gccgcggcgg cggccgcgcg cgaagccgcg gccgcttctg cctggcgccg tgccctaca cctaccggcc gtgacgcgc ggcggctcgc tggagcgtc gcatcgcgc aaggactcgc tggacgacag cggcagctgc ctgagcgga gccagcgag cctgcctcgc gcctgcgca gcccggtcta cctggcgccg ggcgcgccac cgcagtcga gctgtgcgc ttcccgagt ggaagcgcc cggcgccctc ctgagcctgc cgcgcctga gcccccgcg gcccgcggc gccacgact ggcgcgcctc ttcacctca agtccctgac cgaagccgag agccccgga ccgacggcgg cgcagcaaac ggaggtcgc agcccgcgcc cgaagtgccc aacggcgagc cggcttcaa aagcaacatg cccctggcgc cgggcagtt ttagggcccc cgtgcgagc tttcttccc tggggaggaa aacatcgtg ggggga</p>	Homo sapiens
37	Alpha 1c- adrenoceptor	NM_000680	<p>VGNILVLSV ACNRLHRTPT NYFTVNLAMA DLLLSTFVL P FSAALEVLGY WVLGRIFCDI WAAVDVLCCT ASILSLCAIS IDRYIGVRS LQYPTLVTRR KAILALLSW VLSTVISGP LLGWKEPAPN DDKECGVTEE PFYALFSSLG SFYIPLAVIL VMYCRVIYA KRTTKNLEAG VMKEMSNSKE LTLRIHSKNF HEDTLSTKA KGHNPRSSIA VKLFKFSREK KAAKTLGIVV GMFILCWLPF FIALPLGSLF STLKPPDAVF KVVFVLGYFN SCLNPIIYPC SSKEFKRAFV RILGCQCRGR GRRRRRRRRR LGGAYTYRP WTRGGSLEPS QSRKDSLDDSD GSCLSGSQRT LPSASPSPGY LGRGAPPPVE LCAFFEWKAP GALLSLPAPE PPRRRGRHDS GPLFTFKLLT EPESPGTDGG ASNGGCEAAA DVANGQPGEK SNMPLAPQGF gaattccgaa tcatgtgcag aatgctgaat cttccccag cggaagaaagca gattctcgtg attctggaat tgcattgtgc gcacccagct tcgggttagg agggagtcgg ggtcccgccg taggccagc cgcaggtgg agagggtccc cggcagcccc cgcgcacctt ggcattgtct ttaatgccct gcccttcat gtggccttct gaggttccc agggctggcc aggttgttt cccaccccg cgcgcgctct cacccccagc caaacccacc tggcagggct cctccagcc gagacctttt gattccccggc tcccgcgctc ccgctccgc gccagcccg gaggtggccc tggacagcg gacctcgccc ggccccggct gggaccatgg tgtttctctc gggaaatgct tccgacagct ccaactgcac</p>	Homo sapiens

38	Alpha 1c- adrenoceptor	NP_000671.1	379	<p> ccaaccgcgc gcaccggtga acatttccaa ggccattctg ctcggggtga tcttgggggg cctcattctt ttcgggggtgc tgggtaacat cctagtgate ctctccgtag cctgtcaaccg acacctgcac tcagtcacgc actactacat cgtcaacctg gcggtggccg acctcctgct cacctccacg gtgctgcctt tctcgcctat cttcagaggtc ctagggtact gggccttcgg cagggtcttc tgaacatctt ggccggcagt gtagtgcctg tgcgacccg cgtccatcat ggcctctgac atcatctcca tgcacccgcta ctcggcgctg agctacccgc tgcgtaccc aaccatcgtc acccagagga ggggtctcat ggctctgctc tgcgtctggg cactctccct ggtcatatcc attggacccc tgttcggctg gaggcagccg gccccgagg acgagacct ctgcagatc aacgaggagc cgggctacgt gctcttctca gcgctgggct cctctacct gcctctggcc atcatcctgg tcatgtactg ccgctctac gtggtggcca agaggagag ccggggccct aagtctggcc tcaagaccga caagtccgac tcggagcaag tgacgtccg catccatcgg aaaaacgccc cggcaggagg cagcgggatg gccagcgcca agaccaagac gcactctca gtgaggctcc tcaagtctc cgggaggaag aaagcggcca aacgctggg catcgtggtc gctgcttgc tctctgctg cctgctctt tcttagtga tggcattgg gtctttctc cctgatttca agcctctga aacagttttt aaatagtat ttggctcgg atatctaac agctgcatca acccatcat ataccctgc tccagccaag agttcaaaaa ggcctttcag atgtcttga gaatccagt tctccgaga aagcagttct ccaaacatgc cctgggtac accctgcac cggccagcca ggcgtggaa gggcaacaca aggacatggt gcgcacccc gtgggatcaa gagagacctt ctacaggatc tccaagacgg atggcgtttg tgaatggaaa ttttctctt ccatgccccg tggattctgc aggtattacg tgcctaaaga ccaatcctcc tgtaccacag cccgggtgag agtaaaagc ttttggagg tctgctgctg tgtaggccc tcaaccccca gccttgacaa gaacatcaa gttccaaacca ttaaggtcca caccatctcc ctacgtgaga acggggagga agtctaggac agaaaagatg cagaggaag gggaataatc ttaggtacc acccacttc cttctcgaa ggccagctct tctggagga caagacagga ccaatcaag aggggacctg ctgggaatgg ggtgggtggt agaccct catcaggcag cgggtaggc acaggaaga gggaggtgt ctcacaacca accagttcag aatgatacgg aacagcattt cctgcagct aatgcttct tggcactct gtgccactt caacgaaaac caccatgga aacagaatt catgcaaat ccaaaagact ataatatag gattatgatt tcatcatgaa tatttgagc acacactta agttggagc tatttctga tggaagtgag gggattttat tttcaggctc aacctactga cagccacatt tgacatttat gccggaattc </p>	Homo sapiens
39	Alpha 2a- adrenoceptor	NM_000681	387	<p> ssnctqppap vniskaillg vilgllifg vlgnilvils vachrrhlshv p thyyivnlav adllltstvl pfsaifevlg ywafgrvfcn iwaadvlcc tasimglcii sidryigvsv plryptivtq rrglmallcv walslvisig pfgwrqpap edeticqine epgyvlfasal gsfylplaii lvmvcrvyyv akresrglks glktdksdse qvtlrihrkn apagsgmas aktkthfsvr llkfsrekka aktlgivvvc fvlcwlpffl vmfigsffpd fkpsetvfki vfwlglynsc inpiypcss qefkafqnv lriqclrrkq sskhalgtytl hppsqaavgq hkdvmripvg sretfyrisk tdgvcewfff lsmprgsari tvskdqssct tarvrsksfl evcccvgsst psldknhqv tikvhtisls engeev gcgctcggcg cccaccaggc ggacgcccag gagaacccct gcctccgtcg cggctcctgg a agagctgac gtccacctgc cccggccgc ctgaggacgg ggggtgcctc atcgggcccc </p>	Homo sapiens

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40	Alpha 2a- adrenoceptor	AAA51664.1	<p>gctcacaaaa ggttaaatgga tggggggttac ctaggccctgg ctaattcccc ttcattcccc aactctctct ctctttttga agaaaaatgc taagggcagc cctgcctgcc ctecccatcc ccgctgtgaa atatacata tttttgatag cacacatggg gcccctatat ctcttggcct tggtttgat gttgaaatcc tggccttggg agagatgctg tccaggcaga cacagtgtc tggttcaggc caagcccttt tgaatgcaa gccctttctg gtgttatgaa gtcctcttat gtcgtcgttt tcaccagcaa ctggtgactg tcccttgac acggacctgc tttgagattt cctgacaggg aaaagatttc tgtccatttt tttcctgtgc ctaacagcat aattgacctt tcctatgtaa atattatgat ggttgatcaa gacataagta aatgagcctt tctgcctcac atcagccctg tgtataaagc cattattctc tgatgactg tttgccccag taactcactt taaaacctct ctttccagt ttcctctctc cctccaggg ccactgcttg aagaagaata tgtatgttc tatcttat gctgtgtgc cctcctgcc ccgaaagtgc tgactatggg gaaatcttt agctgctgtt tttagactcc aaggagtga aattatgtg aagaagcaaa cctgatacaa ttgcccag gtaaacagtt tgaaaagaca aatggcctg ccaactgta cagtttcttc cccaagagct gttaggatc aaaaattgt cctttcccc ctcgtgtctt ttctgggtga gatcatgtca ttgatgaact gcaaaagtca ggggaggagg gcagagactt tgtgtttaca tctgcatctt tacatgtttt agacagagac aatttaaggc ctgactctt atttcaacta agaaaaacta atgtcagcac atgttgctaa tgacagtga tttttttta aataaaaaag tttacagatc aaatgtgaaa taaatatgaa tggagtgtc aaa MGSLOPDAGN ASWNGTEAPG GGARATPYSL QVTLTLVCLA GLIMLLTVFG NVLVIIVFT P SRALKAPQNL FLVSLASADI LVATLVIIPFS LANEMVGWY FGKTCWEIYL ALDVLFTCTSS IVHLCAISLD RWSITQAI EYNLKRTPRRI KAIITCWVI SAVISFPPLI SIEKKGSGGG PQPAERPRCEI NDQKWYVISS CIGSFFAPCL IMILVYVRIY QIAKRRTVP PSRRGPDAAV APPGGTERRP NGLGPERSAG PGGAEEPLP TQLNGAGPEP APAGPRDTDA LDLESSSSD HAERPPGPRR PERGPRGK GK ARASQVKPGD SLRGAGRRR GSGRRLQGRG RSASGLPRRR AGAGGQNLKX RFTFVLAVI GVFFVWVFPF FFTYTLTAVG CSVPRTLKFK FFWFGYCNSS LNPVIYTIEN HDEFRAFKKI LCRGDRKRIV</p>	Homo sapiens
41	Alpha 2b- adrenoceptor	NM_000682	<p>atggaccacc aggaccctca ctcctgtgcag gccacagcgg ccatagcggc ggccatcacc A ttcctcatct cctttaccat cttcggcaac gctctgtgtca tcttggtgtg gttgaccagc cgctcgtg cgcgccctca gaacctgttc ctggtgtgctg tggccgcgcg cgacatcctg gtggccacgc tcatcatccc ttctcgtctg gccaacagcgc tgcctgggcta ctggtacttc cgccgcacgt ggtgcgaggt gtacctggcg ctgcacgtgc tcttctgcac ctggtccatc gtgcacctgt gcgccatcag cctggaccgc tactgggcgc tgagccgcgc gctggagtag aactccaagc gcaccccgcg ccgcatcaag tgcatactc tcactgtgtg gctcatcgcc gccgtcatct cgctgcgcgc cctcatctac aaggcgacc agggccccc gccgcgcggg cgccccagc gcaagctcaa ccaggaggcc tggtaacatc tggcctccag catcgatct ttctttgtc cttgcctcat catgatcctt gtctacctgc gcatctacct gatcgccaaa cgagcaacc gcagaggtgc cagggccaaag ggggggctc ggcaggggtga gtccaagcag ccccagccc accatggtg ggttttgccc tcagcaaac tgcagacctt ggcctctgtg gcttctgcca gagaggtcaa cggacactcg aagtcactg gggagaagg ggcgggggag acccctgaag atactgggac ccgggccttg ccaccagtt gggctgcct tcccaactca ggccagggcc agaaggaggg tgtttgtggg gcactctcag aggatgaagc tgaagaggag</p>	Homo sapiens

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Homo

LVSIAAADIL P

RSLRAPQNLF

ALVILAVLTS

FLILFTIFGN

ATAAIAAAT

NP_000673.1

Alpha 2b-

388

42

adrenoceptor		sapiens
43	389	<p> VATLIIPSL ANELLGYWF RRTWCEVYLA LDVLFCTSSI VHLCAISLDR YMAVSRALRY NSKRTPRRIK CIILTWLIA AVISLPPLIY KGDQGPQPRG RPQCKLNQEA WYILASSIGS FFAPCLIMIL VYLRIYLIK RSNRRGPRAK GPGQGQESKQ PRPDHGALA SAKIPALASV ASAREVNGHS KSTGEKEGE TPEDTGTRAL PPSWAALPNS GQKQKEGVCG ASPDEAESEE EEEEEEEEEC EPQAVPVSPA SACSPPLOQP QGSRVLATLR QGVLLGRVGV AIGQWWRRRR AHVTREKRTF FVLAVWIGVF VLCWFPPFFFS YSLGAICPKH CKVPHGLFQF FFWIGYCNSS LNPVIYTFN QDFRAFRRI LCRPWTQTAW ctgcaggcgg ccctggaggg ggcgcctctc cagagcgcgc gccccgcgc gccgccccgg A actctcccc ggcgcgcgc ggcaggttc gaccaggcg ccgcgggtc cggttccccg ccagctccc agggccccg ggcccccgc ccgcgcgcgc gccccgtgc gctaaactga cccaagtgg aagccgatc cagcgggcgc cactgcgcgc cagcagggc gccgcgggcg gcggcggcgc agctccggc agcaggcgc cggcgcgcgc gcaagcgtgg accgcggggg gcgcgcgcgc cgggagcgc cggaggactc cggcgcgcgc cggcgcgcgc cccgggaaaag taagtggga gacggaggga gcgcgcggg cggcgcgcgc ggcgcgcgc gccggcccc ggcgcgcgca gccctagcgc ccggatggga ggcggagcgc ccggcgcgc gccgcttgt cgctgcgcgc ccggctgggc tccgggaccg cggggcgcgc acggcaccg cgtcgcgcgc gcgtgcgcgc ggcgcgcgc cggggcgcgc ccgtgagcgc ggcgaggcg ggcgcgcgcga ggacccccgg acctgcgcgc cccccccgc agcgcgcgc ccgtcgcgc cggcgcccc ctgctctgca ctacacgct cggcagctgc ggggagcccc gcagccacgc tctccggcgc gcgcgcgcgc gacccaccac ggcagaggc cggctgctgg gcgcgcgcgc ccccgcggg cgcccgag cagcaggcgc cgtgcgggc gccgaccccc cgtgggggc gcccgagctg ccgcggcgc gccccgcgc cagcaggcgc ggcgtagccc gcgggagac catggcgctc ccggcgctgg cggcgcgct ggcgtggcg gcagcggcg gccccaatgc gagcgcgcg ggcgagagg gcagcgcg ggttgccat cctcctgggc cttcctgggc gcccgcgcg ggccagctact cggcgcgcg ggtggcagg cgtgctggcg tgggggctt cctcctcgc ttcaccgtgg tgggcaact gctggtggt atcgcgctgc tgaccagcgc ggcgtgcgc gcgcacaga acctctct cgtgctcgc gcccgcggc acatcctggt gccacgctg gtcatgccc tctgctggc caacgagct atggcctact ggtacttcg gcaggtgtg tgcgcgctgt acctggcgt cgtgtgctg tttgcaact cgtcgatcgt gcatctgtg gccatcagcc tggaccgcta ctggtcggg acgagggcgc tcgagtacaa cctgaagcgc acaccacgc gcgtcaagg caccatcgt gccgtgtggc tcatctcgc cgtcatctcc ttcccgccgc tggctcgt caccgcgcgc cccgagcgc cccctacc gccagtcggc ctcaacgac agacctggt cactctgct cctgcatc gctcctctt cgcgcctgc ctcatcatgg gcctggtcta cgcgcgcgc taccagatgg ccaagcgtgc cagcgcacg ctcagcgaga agcgcgccc cgtgggccc gacggtgcgt ccccgactac cgaacacggg ctggcgcgcg cggcagcgga ggcgagaac ggcactgcgc cccccgcgc gccgacgtg agccggacga gacagcgca gcggccgaga gcggcgcggc cggcgcggt gccgcgggc ggcgcgcggc gagcgcggc ggaggggggc cggcgcggt gcggcgcgga gggcgcggg ccggggcgcg ctcagtcggg ggcgctgacc gctccaggt ccccggggc cgttgccgc ctctgcgcgc ccagctcgc ctcgctcgt tctctcgt cgcgcgcgc cccggcgcg agcagcgtgt gccgcgcaa ggtggccag gcgcgcgaga agcgttccac cttgtgctg </p>
		<p> Homo sapiens </p>
Alpha 2c- adrenoceptor	NM_000683	

44	389	Alpha 2c- adrenoceptor	NP_000674.1	<p>gctgtggtca tgggcgtgtt cgtgctctgc tgggtccctt tctttctcat ctacagcctg tacggcatct gccgcgaggc ctgccaggtg cccggccccc tcttcaagtt ctctctctgg atcgctact gcaacagctc gctcaacccg gtcacttaca cggctctcaa ccagatttc cgccatctt tcaagacat cctcttccga cggagtgtaa tgggcttcag gcaatgactc gcacccgtct gggaatctg gacagctccg cgtcggggc tgggcagaa ggcggccccc gacgcggggg agctttccca gagaccggg gagctttccc agagaccgg gcatggattg gcctccagg cgaggggag ggtcggcag ggcaggagct tggcagagag atagccggg tccagggaat gggaggaga gagggggaga cccctttgccc tccccctc agcaaggggc tgctctctgg gctccctgccc tggatccagc tctggagacc ctgccaggt gtgctgtga ggtcagggtt ttagagagca gtggcagag tagcccccta aatgggcaag caaggagccc ccaaagaca ctaccactcc ccatccctgt ctgaccaagg gctgacttct ccaggaccta gtcggggggg ggtgcccagg gggcaaggag aaagcacoga caatctttga ttactgaaag tatttaaatg ttgccccaaa acaacagcca aaacaaccaa actattttct aaataaacct ttgtaa</p>	<p>Homo sapiens</p>
45	599	Bradykinin B1 Receptor	NM_000710	<p>LIVFTVVGNV LVVIAVLTSR ALRAPQNLFL VSLASADILV ATLVMPFSLA NELMAYWYFG QVWCGVYLAL DVLFTSSIV HLCAISLDY WSVTQAVEYN IKRTPRRVKA TIVAVWLISA VISFPLVSL YRQPDGAAYP QCGLNDETWY ILSSCIGSFF APCLIMGLVY ARIYRVAKRR TRTLSEKRAP VGPDGASPT ENGLGAAAGE ARTGTARPRP PTWSRTRAQ RPRGGAPGPL RRGRRRAGA EGGAGGADGQ GAGPGAQSG ALTASRSPG SVFFLSRRR RARSVCRRK VAQAREKRFT FVLAVMGVF VLCWFPPFFI YSLYGICREA CQVPGPLFKF FFWIGYCNSS LNPVIYTVFN QDFRPSFKHI LFRRRRRGRF Q</p>	<p>Homo sapiens</p>

46	599	Bradykinin B1 Receptor	NP_000701.1	MASSWPPLLEL QSSNQSLFP QNATACDNAP EAWDLLHRVL PTFIISICFF GLLGNLFLVLL P	Homo sapiens
				VFLPRLRQLN VAEIYLANLA ASDLVFVLGL PFWAENWNQ FNPFFGALLC RVINGVIKAN	
				LFISIFLVVA ISQDRYRLV HPMASGRQQR RQARVTCVL IWWVGLLSI PTFLLRSIQ	
				VPDLNITACI LLLPHEAWHF ARIVELNIG FLPLAAIVF FNYHILASIR TREEVSRTRV	
				RGPKDSKTTA LILTLWAFI VCWAPYHFFA FLEFLFQVQA VRCGFWEDEFI DLGLQLANFF	
				AFTNSSLNVP IYVFGRLFR TKWELYKQC TPKSLAPIS SHRKEIFQLF WRN	
47	600	Bradykinin B2 Receptor	NM_000623	atgttctctc cctggaagat atcaatgttt ctgtctgttc gtgaggaactc cgtgcccacc A	Homo sapiens
				acggcctctt tcaagcgcga catgctcaat gtcaccttgc aaggggcccac tcttaacggg	
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				accttctgca cgtgcagat catgcagggt ctgcggaaca acgagatgca gaagtccaag	
				gagatccaga cggagaggag ggccacgggt ggccacttgg ttgtgctgt gctattcatc	
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48	Bradykinin B2 Receptor	NP_000614.1	<p>gtacatgtga ggcatcatta cgcagacgta actgggatat gttactata aggaagaagac actgaggtct agaaatagct cagtggagca gaatcagtat tgggagcggg tggcgggtgtg aagcaccagt gtctggcaca cagttagtgc tcattggctc ccttccacct gtcattccca ccaccctgag gcccaaccg ccacacacac agagcattt ggagagaagg ccatgtcttc aaagtctgat ttgtgatgag gcagaggaaag atatttctaa tcggctcttg ccagaggatc acagtctga gacccccac caccagccgg tacctgggaa gggggagagt gcaggcctgc tcagggactg ttcctgtctc agcaaccaag ggattgttc tgcataatca tggtttatgg gaaggtggcc cagtatgagc cctagaagag tgtgaaaagg aatggcaatg gtgttcacca tcggcagtgc cagggcagca ctcattcact tgataaatga atatttatta gctggttgga gagctagaac ctggagagct agaacctgga gaactagaac ctggagggtc agaacctgga gaggctagaa ccaagaaggg ctagaacctg gaggggctag aacctagaga agctaaaaac tgagctagaa gctggaggac tagaacctgg agggctggaa cctgaagggc tagaacctgg aggctgggaa tctggagagc tagaacctgg agggctagaa cctgaagggc tagaacctag aaggctaga acctggagg ctggaatctg gagagctaga acctggagg ctgaacctg gaggctaga acctgaagg gctagaacct ggagggctag aacctggag gttagaacct agaagggcta gaacctggag agccagaacc tggagggcta gaacctggaa gggctagaac ctgtagagct agaactgga gactagaac ccggcaggct agaacctggc aagctagaac ctggagggaa tgaacctgga gggctagaac ctggagaatg agaaaaattt acatggcaaa gagcccataa atcctgacca atccactct gaatttttaa gcaaaagcgt gaaaaaaag attccctctt taccaccaac ccactctttt tccccaccac ccactctctt ctgctcagt agaatgaagt caaactgtgc caggtgaaag aagaatgaaa aaccttttag tattagttat ttgtcacaca gggcagtcac tcagcaccag agcacgtgat ggtctgagac tctcttagga gcagagctct gccgcaatg ccattgtggg atccacacct ggtctgagg gcaactgagt ctgcgggaga agagcgccc tatgcatggt gtagatgcc tgaataagaa catctgtcct gtgaaaagact caatgagctg ttatgttgta aacagggaag atttcacatc caaacgagaa aatcatgtaa acatgtgtct ttctgtaga gcataataaa tggatgaggt tttgcaaaa aaaaaaa aaa</p>	Homo sapiens
600			<p>PFSPWKISMF LSVREDSVPT TASFSADMLN VTLOQPTLNG TFAQSKCPQV EWLGLNTIQ P PPFLWLVFL ATLENIFVL VFCLHKSSCT VAEIYLGSLA AADLILACGL PFWAITISNN FDWLFGETLC RVVNAIISMN LYSSICFLML VSIDRYLALV KTMSMGRMRG VRWAKLYSIV IWGCTLLSS PMLVFRMTKE YSDEGHNVT A CVISYPSLIW EVFTNMLLN VGFLPLSVI TFCTMQIMQV LRNNEMQKFK EIQTERRATV LVLVLLLF I CWLPFQIST FLDTLRLGI LSSCQDERII DVITQIASFM AYSNSCLNPL VYVIVGRFR KKSWEVYQGV CQKGGCRSEP IQMENSMTGL RTSISVERQI HKLQDWAGSR Q</p>	
635	Beta-1 adrenoceptor	NM_000684	<p>tgctacccgc gcccggtctt ccccaaccac ggcccagccc tgccacaccc A ccgcgcccg gccctccgag ctcggcatgg gcgcgggggt gctgctctg ggcgctccg agcccggtaa cctgtcgtcg gccgaccgc tccccgacg gcggcgccg gcggcgccg tgctgtgtcc gcgctgcgcg ccgcctcgt tgcctgcctc gcgcagcga agccccgagc cgctgtctca cgaagtggaca gcgggcatgg gctgctgat ggcgtcatc gtgctgtca tcgtggcggg caatgtgctg gtgatgtgg ccatcgcaa gacgcggcg ctgcagacgc</p>	Homo sapiens

50	635	Beta-1 adrenoceptor	NP_000675.1	<p> taccacacct cttcatcatg tccctggcca ggcgcgaact ggatcatggg ctgctggtgg tgccgttcgg gcccaccatc gtggtgtggg gccgttggga gtacggctcc ttcttctgag agctgtggac ctacgtggac gtgctgtgag tgacggccag catcgagacc ctggtgtgtca ttgcccttga ccgtacatc gccatcacct cgccttccg ctaccagagc ctgctgacgc gcgcgcgggc gcggggccct gtgtgcaccg tgtgggcat ctgcggccctg gtgtccttcc tgccatcct catgcactgg tggcgggcg agagcgacga ggcgcgcgc tgctacaaag accccaagt ctgcgacttc gtcaccaaacc ggcctacgc catcgccctg tccgtagtct ccttctacgt gccctgtgc atcatggcct cgtgttacct gcgggtgttc cgcgaggccc agaagcaggt gaagaagatc gacagctgc agcgcgttt cctcgccgc ccagcgccgc cgccctcgcc ctgcctcg cccgtcccg cgcgcgcgc gccgcgcga ccccgcgcc cgccgcgcgc cgccgccacc gcccgcctgg caacggggcg tgcgggtaag cgcgcgcct cgcgctcgt ggcctacgc gacgagaag cgtcaagac gctgggcac atcatggcg tcttcacgt ctgctggct ccttcttcc tggcgaact ggtgaaggcc ttccaccgcg agctggtgcc cgaccgctc ttgcttct tcaactggct gggctacgc aactcgccct tcaaccccat catctactc cgacgccc acttccgaa ggccttcag ggactgctct gctgcgcgc cagggtgccc cgccggccc acgcgaccca cgagacccg cgcgcgcct cggtgtgt ctgcccggccc ggaacccgc catcgcccg gccgcctcg gacgacgag acgacgagt cgtcggggc agccgccc cgcgcctgct ggagccctgg gccggctgca acggcggggc ggccgggac agcactcga gcttgagca gccgtgcgc cccggcttgc cctcggaatc caaggtgtg ggcgcggcg gggcgcgga ctccgggac ggttcccg gggaacgag agatctgtg ttacttaaga cgaatcga agccacaat cctcgtctga atcatcgcg gcaagagaa agccacgga cgttgaca aaaaggaaaag ttggggaag gatgggag tggttctg atgttcttg ttg MGAGLVLGA SEPNLSSAA PLPDGAATAA RLIVPASPAA SLLPPASEP EPLSQWTAG P MGLMALIVL LIVAGNLVI VAIKTPRLQ TLNLFIMSL ASADLMGLL VVFFGATIVV WGRWEYGSFF CELWTSVDVL CVTASIELC VIADRYLAI TSPFRYQSL TRARAGLVC TVWALSALVS FLPILMHWR AESDEARRCY NDPKCDFTV NRAYAIASSV VSFYVPLCIM AFVYLRVFRE AQKQVKIDS CERRFLGGPA RPPSPSPV PAPAPPSP PAPAAAAATAP LANGRAGKRR PSRLVALREQ KALKTLGIIM GVFTLCWLPF FLANVVKAFH RELVPPDRLFV FFNLGYANS AFNPIIYCRS PDKFAFQGL LCCARRARR RHATHGDRPR ASGLARPGP PPSPGAASDD DDDDVVGATP PARLLEPWAG CNGGAAADSD SSLDEPCRP FASESKV </p>	Homo sapiens
51	640	Beta-2 adrenoceptor	NM_000024	<p> actgcgaag ggcttctca gagcacggc tggaactggc aggcacgcg agccctagc A accgacaag ctgagtgtgc aggacgagtc ccacacacac ccacacaca gccgctgaat gaggttcca ggctcctc cgcggccgc agagccccgc cgtgggtccg cccgtgag cgccccagc cagtgcgtt acctgccga ctgcgcgcca tggggcaacc cgggaacgc agcgcctct tctgggacc caatagaagc catgcgcgcg accacgact cagcagcaa agggacgag tgtgggtggt gggcatggc atcgtcatgt ctctcatgt cctggccatc gtgtttggca atgtgctgt catcacagc attgccaagt tcgagcgtc gcagacggtc accaactact tcatcactc actggcctgt cctgatctgg tcatgggctt ggcagtggtg cccttgggg ccgccatat tcttatgaa atgtggact ttggcaact ctggtgcgag tttggactt ccattgatgt gctgtgctc acggccagca ttgagacct gtgctgctc </p>	Homo sapiens

52	Beta-2 adrenoceptor	NP_000015.1	<p>gcagtggtatc gctactttgc cattaacttca cctttcaagt accagagcct gctgaccaag aataaggccc gggatgatcat tctgatgggtg tggattgtgt caggcccttac ctcttctttg ccatttcaga tgcactggta ccgggccacc caccaggaag ccatcaactg ctatgccaat gagacctgct gtgacttctt cactgaaccaa gctacttcca ggttctttca gtaggtgtcc ttctacgttc ccttggtgat catggtcttc gtctactcca ggttctttca gtaggtgtcc agcgactccc agaagattga caaatctgag ggcgcttcc atgtccagaa ccttagccag gtggagcagg atggcgagac ggggcatgga ctccgcagat cttccaaagt ctgcttgaag gagcacaag cctcaagac gttaggcatc atcatgggca ctttcacct ctgctggctg cccttctca tggtaacat tggcatgtg atccaggata acctcatccg taaggaaagt tacatctccc taaattggat aggtatgtc aattctggt tcaatcccc tatctactgc cggagccag atttcaggat tgcctccag gagcttctgt gcctgcgag gctcttctttg aaggcctatg ggaatggcta ctccagcaac ggcaacacag gggagcagag tggatatcac gtggaacagg agaaagaaaa taaactgctg tgtgaagacc tcccaggcac ggaagacttt gtgggccatc aaggtactgt gcctagcgt acatattgat cacaaggag gaattgtagt acaaatgact cactgctga aagcagtttt tctactttta aagaccccc ccccccaac agaacactaa acagactatt taacttgagg gtaataaact tagaataaaa ttgtaaaaaat tgtatagaga tatgcagaag gaaggcctc ctctgctctt tttattttt ttaagctgta aaaagagaga aaacttattt gagtgattat ttgtatttg tacagttcag ttcctctttg catggaattt gtaagtttat gtctaaagag cttagtctct agaggacctg agtctgctat atttcatga ctttccatg tatctacctc actattcaag tattaggggt aatatattgc tgctggtaat ttgtatctga aggagatttt ccttctacaa ccttggact ttaggatttt gagtatctcg gacctttcag ctgtgaacat ggactcttcc cccactctc ttatttgcct acacggggta ttttaggcag ggaattgagg agcagcttca gttgttttcc cgagcaaaag tctaaagttt acagtaataa aaatgttga ccatg</p>	Homo sapiens
53	Beta-3 adrenoceptor	NM_000025	<p>gctactctc ccccaagagc ggtggcaccg agggagtgg ggtgggggga ggctgagcg A tctggctggg acagctagag aagatggccc aggtgggga agtgcctc atgcctgtct gtccctccc ctgagccagg tgatttggga gacccctcc ttcctttt cctaccgccc ccacgcgga cccgggagtg gctccgtggc ctccagagaa cagctctctt gccccatggc cggacctccc caccctggcg cccaataccg ccaacaccag tgggctgcca ggggttccgt gggagcgggc ctagccgggg gcccgtgctg cgtggcggt cgtggccacc gtgggagga acctgctggt cactgtgggc atcgccctgga ctccgagact cctgggtgtg accaacgtgt tcgtgacttc gctggcgcca gccgacctgg tgatgggact cctgggtgtg ccgccggcg ccacctggc gctgactggc cactggcctg tggcgccac tggctggag ctgtggacct cgggtggact gctgtgtgtg accgcagca tggaaacctt gtgcgcccgt gccgtggacc</p>	Homo sapiens

[illegible]

Homo sapiens

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55	688	Opsin, blue-sensitive	NM_001708	<p> CRGRRRLPPE PCAAARPALF PSGVPAARSS PAQPRLCQRL DGASWGV ggcatccatg agaaaaatgt cggaggaaga gttttatctg ttcaaaaaa tctcttcaagt A ggggccctgg gatgggcctc agtaccacat tgccccctgc tgggccccttct acctccaggc agctttcatg ggcactgtct tcttatagg gtccccactc aatgccatgg tgcgtgtggc cacactggc tacaaaaagt tggggcagcc cctcaactac attctggta acgtgtcctt cggaggcttc ctccctctga tcttctctgt tctccctgtc ttcgtcgcca cctgttaacgg atacttcgtc ttcggtcgcc atgtttgtgc tttagggggc ttccctggga cgttagcagg tctggttaca ggatgggtcac tggccttctt ggcctttgag cgctacattg tcatctgtaa gcccttcggc aacttcgct tcaagtccaa gcatgcactg acggtgggcc tggctacctg gaccattggg attggcgctt ccatcccaacc cttctttggc tggagccggg tcatccctga gggacctgag tgttccctgt gccctgactg gtacacccgtg ggcaccaaatt accgcagcga gtccatacag tggttccctt tcatcttctg cttcattgtg cctctctccc tcatctgctt ctcctacact cagctgtgga gggccctgaa agctgttga gctcagcagc aggagtcagc tacgacccag aaggctgaac gggaggtgag ccgcatgggtg gttgtgatgg taggatcctt ctgtgtctgc tacgtgccct acgcgccctt cgcctatgtac atggtcaaca accgtaacca tgggctggac ttacggcttg tcaccattcc ttcattcttc tccaagagtg cttgcatcta caatcccatc atctactgct tcatgaataa gcagttccaa gcttgcata tgaagatggg gtgtgggaag gccatgacag atgaatccga cacatgacg tcccagaaaa cagaagtctt tactgtctcg tctacccaag ttggcccaaa ctgaggaccc aatattggcc tgtttgcaac agctagaatt aaattttact t MRKMEEEEFY LFKNISSVGP WDGPQYHIAP VWAFYLAQAF MGTVFLLIGFP LNAMVLVATL P RYKKLRQPLN YILNVVSFGG FLICIFSVFP VFVASCNGYF VFGRHVCALE GFLGTVAGLV TGWSLAFIAF ERYIVICKPF GNFRFSSKHA LTVVLATWTI GIGVSIPPF GWSRFIPEGL QCSGPDWYT VGTKYRSESY TWFLIFCFI VPLSLICFSY TQLLRALKAV AAQQQESATT QKAREVSRM VVMVGSFCV CYVPYAAFAM YMVNNRHGL DLRLVTIPSF FSKSACIYNP IIYCFMKNQF QACIMRMVCG KAMTDESDTC SSQKTEVSTV SSTQVGNP gagtatctgg atgtcttggg ttttctccc attctgttct gttctgttct cctaatacca A tctcgttact agacgtaggc atggagctg acaatcaact gcatttgaac tgagaagaag aaatattaaa gacacagtct tcagaagaaa tggctcaaa gacgctcac tcacctaatc agactttaat ttcaatcaca aatgacacag aatcatcaag ctctgtgggt tctaacgata acacaaaataa aggatggagc ggggacaaact ctccaggaat agaagcattg tgtgccatct atattactta tgcgtgtatc atttcagtgg gcactcttgg aaatgctatt ctcatcaaa tctttttcaa gaccaaatcc atgcaaacag ttcaaatat tttcatcacc agcctggctt ttggagatct tttacttctg ctaacttgg tgcagtgga tgcacactac taccttgcag aaggatggct gttcggaaga attggttga aggtgctctc tttcatccgg ctacttctg ttgggtgtgc agtgttcaca ttaacaattc tcagcgctga cagatacaag gcagttgtga agccacttga gcgacagccc tcaaatgcca tctgaagac ttgtgtaaaa gctggctgcy tctggatcgt gtctatgata ttgtctctac ctgagggctat attttcaaat gtatacactt ttcgagatcc caataaaaat atgacatttg aatcatgtac ctcttatctt gtcttaaga agctcttga agaaatacat tctctgtgtg gttcttagt gttctacatt attccactct ctattatctc tgtctactat tcttggattg ctaggaccct ttacaaaagc acctgaaca </p>	Homo sapiens
56	688	Opsin, blue-sensitive	NP_001699.1	<p> MRKMEEEEFY LFKNISSVGP WDGPQYHIAP VWAFYLAQAF MGTVFLLIGFP LNAMVLVATL P RYKKLRQPLN YILNVVSFGG FLICIFSVFP VFVASCNGYF VFGRHVCALE GFLGTVAGLV TGWSLAFIAF ERYIVICKPF GNFRFSSKHA LTVVLATWTI GIGVSIPPF GWSRFIPEGL QCSGPDWYT VGTKYRSESY TWFLIFCFI VPLSLICFSY TQLLRALKAV AAQQQESATT QKAREVSRM VVMVGSFCV CYVPYAAFAM YMVNNRHGL DLRLVTIPSF FSKSACIYNP IIYCFMKNQF QACIMRMVCG KAMTDESDTC SSQKTEVSTV SSTQVGNP gagtatctgg atgtcttggg ttttctccc attctgttct gttctgttct cctaatacca A tctcgttact agacgtaggc atggagctg acaatcaact gcatttgaac tgagaagaag aaatattaaa gacacagtct tcagaagaaa tggctcaaa gacgctcac tcacctaatc agactttaat ttcaatcaca aatgacacag aatcatcaag ctctgtgggt tctaacgata acacaaaataa aggatggagc ggggacaaact ctccaggaat agaagcattg tgtgccatct atattactta tgcgtgtatc atttcagtgg gcactcttgg aaatgctatt ctcatcaaa tctttttcaa gaccaaatcc atgcaaacag ttcaaatat tttcatcacc agcctggctt ttggagatct tttacttctg ctaacttgg tgcagtgga tgcacactac taccttgcag aaggatggct gttcggaaga attggttga aggtgctctc tttcatccgg ctacttctg ttgggtgtgc agtgttcaca ttaacaattc tcagcgctga cagatacaag gcagttgtga agccacttga gcgacagccc tcaaatgcca tctgaagac ttgtgtaaaa gctggctgcy tctggatcgt gtctatgata ttgtctctac ctgagggctat attttcaaat gtatacactt ttcgagatcc caataaaaat atgacatttg aatcatgtac ctcttatctt gtcttaaga agctcttga agaaatacat tctctgtgtg gttcttagt gttctacatt attccactct ctattatctc tgtctactat tcttggattg ctaggaccct ttacaaaagc acctgaaca </p>	Homo sapiens
57	692	Bombesin Receptor Subtype-3	NM_001727		Homo sapiens

Homo
sapiens

P

NP_001718.1

Bombesin
Receptor
Subtype-3

692

58

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Homo
sapiens

A

NM_001716

CXC
Chemokine
Receptor 5

729

59

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60	729	CXC Chemokine Receptor 5	NP_001707.1	<p> tctaatacat ccaatgctca agaacaact tctactctg ccttgccaa cggagagcgc ctgcccctcc cagaacacac tccatcagct tagggctgc tgacctccac agcttccccct ctctcctcct gccacacctg caaacaagc cagaagctga gcaccaggcg atgagtggag gttaaggctg aggaagggcc agctggcagc agagtgtgc ctccggacaa ctacagtcct aaaaacacag acattctgcc agggcccccag tggctcagtc acttgacca gcaggaagc tcagactggg tagtttcagg tagctgcccc ggctctgac cgaacacagc ctgggtccac cccatgtcac cggatcctgg gtggtctgca ggcagggtg actctaggcg ccttgaggag ccagccagt acctgaggaa gcgtgaaggc cgagaagcaa gaaagaaacc cgacagaggg aagaaaagag ctttcttccc gaaccccaag gagggagatg gatcaatcaa acccggcggg ccctccgccc aggcagatg ggggtggggtg gagaactcct aggtggctg ggtccagggg atgggaggtt gtgggcattg atggggaag aggtggctt gtccccctc cactccccct ccataagcta tagaccgag gaaactcaga gtgggaacgg agaaagggtg actggaaggg gccgtggga gtcatctcaa ccatccccct cgtggcatca ccttaggcag ggaagtgtaa gaaacacact gaggcaggga agtccccagg cccacggaa cctggccctg ccccgtagg gatgtcacg agatggaacc gcaggaaagt cctccgtgct tgtttgctca cctggggtgt gggaggcccc tccggcagtt ctgggtgctc cctaccact cccagcctt tgatcaggtg gggagtcagg gacccctgcc ctgtcccaac tcaagccaa cagccaaagt ccttgaggag ccccactggg gaaataacag ctgtggctca cgtgagagtg tcttcacggc aggaacaaga ggaagcccta agacgtccct ttttctctg agtatcctc cgcaagctgg gtaatcgatg gggaggtctg aagcagatgc aaagaggcaa gaggtcggat tttgaatttt ctttttaata aaaaggcacc tataaaacag gtcaatacag tacaggcagc acagagacc ccggaacaag cctaaaaaatt gtttcaaat aaaaaccaag aagatgtctt caaaaaaaa aaaaaaaa aaaa </p>	Homo sapiens
61	735	C-C Chemokine Receptor 1	NM_001295	<p> SESENATSLT TF ggcacgagcc cagaacaaa gacttcacgg acaaaagtccc ttggaaccag agagaagccg A ggatggaac tccaaacacc acagaggact atgacacgac cacagagttt gactatggg atgcaactcc gtgccagaag gtgaacgaga gggcctttgg ggcacaaactg ctgccccctc tgtactcctt ggtatttgc attggcctgg ttggaaacat cctggtggtc ctggtccttg tgcaatacaa gaggctaaaa aacatgacca gcaatcact cctgaacctg gccatttctg acctgtctct cctgttcaag cttcccttct ggtacgacta caagtgaag gatgactggg tttttggtga tgcctgtgt agatcctct ctgggtttta ttacacagc ttgtacagcg agatcttttt catcatcctg ctgacgattg acaggtaac gtgcatcac cacgccgtgt ttgccttgcg ggcacggacc gtcacttttg gtgtcatcac cagcatcctc atttgggccc tgcccatctt ggcttccatg ccaggcttat acttttccaa gacccaatgg gaattcactc accacacctg cagccttcac ttctctcagc aaagcctacg agagtgaag ctgtttcagg </p>	Homo sapiens

62	735	C-C Chemokine Receptor 1	NP_001286.1	ctctgaaact gaacctcttt gggctgggtat tgcctttgtt ggtcatgata atctgctaca caggattat aaagattctg ctaagacgac caaatgagaa gaaatccaaa gctgtccgtt tgattttgt catcatgac atctttttt tcttttgac cccatacaat ttgactatac ttattttgt ttccaagac ttctgttca cctatgagt tgaacagagc agacatttgg acctggctgt gcaagtgaag gaggatgacg cctacacgca ctgctgtgtc aaccagtg tctacgctt cgttggtgag aggttccgga agtacctgcg gcagttgtt caccagcgtg tggctgtgca cctggttaa tggctccct tctctccgt ggacagcgtg gagagggtca gtccacatc tccctccaca gggagacatg aactctctgc tgggttctga ctcagaccat aggaggccaa cccaaaataa gcaggcgtga cctgccaggc acatgagcc agcagcctgg ctctccagc caggttctga ctctggcac agcatggagt cacagccact tggatagag agggaatga atgggtgctt gggcttctg aggttcttg ggcttcagt tttccatga actctccc tggtagaaag aagatgaatg agcaaaacca aatattccag agactgggac taagtgtacc agagaagggc ttggactcaa gcaagtctt agatttga ccatagcat ttgtcaaca agtccccac ttccactat ccttaagccat gggagacact accagtagt ggtgactgt ggtccattc aagtgagct tcttaagccat gggagacact gatgatgag gaatttctg tctccatca cctccccc cccgccacc tcccactgc aagaacttgg aaatagtat ttccacagt actccactt ggtccaga gccaatcagt agccagcatc tgctccct tcactccc cgcaggattt gggctcttg aatcctggg aacatagaac tcatgacgga agagttaga cctaacgaga aatagaaatg gggaaactac tctggcagt ggaactaaga aagcccttag gaagaattt tataccact aaaaataaac aattcaggga gtgggtaag caggggcat atgaataaca tgggtgctt cttaaaatg cctaaaagg gaggagctca tcaattccat ttacccttct ttctgacta tttttcagaa tctctcttct ttcgaagtg ggtgatagt tggtagattc taatggctt attgcagcga ttaataaacg gcaaaaggaa gcagggttg tttcccttct tttgttctt catctaaacc tctgtgtt atgggtcaga gtcccgactg ccatcttga cttgtcagca aaaaaaaa aaaaaa METPNTEDY DTTTFDYG ATPCKWNER AFGAQLPPL YSLVFVIGLV GNILVVLV P QYKRLNMTS IYLLNLAISD LFLFTLPFW IDYKLDDWV FGDAMCKILS GFYTGGLYSE IFFIILLTID RYLAIVHAVF ALRARTVTFG VITSIIWAL AILASMPGLY FSKTQWETH HTCSLHPHE SLEWKLFQA LKLNLFGLVL PLLVMICYT GIILKILRRP NEKSKAVRL IFVIMIIFFL FWTPYNLTIL ISVFQDFLFT HECEQSRHLD LAVQVTEVIA YTHCCVNPVI YAFVGERFRK YLRQLFHRV AVHLVWLPF LSVDRLEVS STSPSTGEHE LSAGF	Homo sapiens
63	737	C-C Chemokine Receptor 3	NM_001837	ttttcttct tctatcacag ggagaagtga aatgacaacc tcactagata cagttgagac A cttgggtacc acatcctact atgatgactg gggcctgctc tgtgaaaaag ctgataccag agcactgatg gccagattt tggcccgct gtactccctg gtgttccact tgggctctt gggcaatgtg gtgggtgga tgatcctcat aaaaacaggg aggtccgaa ttatgaccaa catctacctg ctcaacctg ccatctcga cctgtcttc ctcgtcacc ttccattctg gatccactat gtcagggggc ataatgggt ttttggcct ggcagtgtga agtccctc agggttttat cacacaggct tgtacacgga gatcttttc ataactctgc tgacaatcga caggtacctg gccattgtcc atgctgtgt tgccttctga ccccgagctg tcaatttgg tgtcatcacc agcatcgtca cctggggcct ggcagtgtga gcagctctc ctgaatttat cttctatgag actgaagagt tgttgaaga gactcttgc agtgcctt accagagga	Homo sapiens

C-C
Chemokine
Receptor 3

64 737 NP_001828.1

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atgaagcaaa cacattaagc cttccacact cacctctaaa acagtcttc aaacttccag
t

C-C
Chemokine
Receptor 3

64

Homo
sapiens

738 NM_005508

C-C
Chemokine
Receptor 4

65

Homo
sapiens

FGTTSYYDDV GLLCEKADTR ALMAQFVPL YSLVFTVGLL GNVVVMILI P
KYRRLRIMTN IYLLNLAISD LFLVTLPEW IHVVRGHNWV FGHGMCKLLS GFYHTGLYSE
IFFIILLTID RYLAIVHAVF ALPARTVTFG VITSIVTWGL AVLAALPEFI FYTEELFEE
TLCALYPED TVYSWRHFHT LRMTIFCLVL PLLVMAICYT GIIKTLRCP SKKYKAIRL
IFVIMAVFFI FWTPYNVAIL LSSYSILFG NDCERSKHLN LVMLVTEVIA YSHCMNPVI
YAFVGERFRK YLRHFFHRHL LMHLGRYIPF LPSEKLETS SVSPSTAEPE LSIVF
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A

Homo
sapiens

NP_005499.1

C-C
Chemokine
Receptor 4

738

66

gtccagcctg gcaagggttc acctgggctg aggcattcctt cctcacacca ggcttgcttg
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ERNHTYCKTK YSLNSTTWKV LSSLEINILG LVIPLGIMLF CYSMIIRTLQ HCKNEKNKA
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NM_001838

C-C
Chemokine
Receptor 7

741

67

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Homo
sapiens

72	C-C Chemokine Receptor 8	NP_005192.1	<p>atcctgcacc agctgaagag gtgtcaaaac cacaacaaga ccaaggccat caggttggtg ctcattgg tcattgcatc ttacttttc tgggtcccat tcaacgtggt tctttcctc acttccctgc acagtatgca catcttgat gtagtagca taagccaaca gctgacttat gccaccatg tcacagaaat cattccttt actcactgct gtgtgaaccc tgttatctat gcttttggg gggagaagt caagaaacac ctctcagaa ttttcagaa agttgcagc caaatcttca actacctagg aagacaaatg cctaggaga gctgtgaaa gtcacatcc tgccagcagc actcctccc ttctccagc gtgactaca tttgtgag atcaatgaag actaaata aaaaacatt tctgaatgg catgtagta gcagtgcga aaggtgtggg tgtgaagg ttccaaaaa agttcagcat gaaggatgc atatatgtt ttgccaacac ttaaaacaca atgactggag acatagtgt gcatgcctgg cacaacatca agcctgtgat tgtgtttatt gatgatgtt aacaagtgt aactttaag gattctgtat gccaaagtga aaaaaagat gctgcaccc ctctatgac aaaaatatac ctccagagac tgtcagttag ctggaagaag tggatatga agtttgaca tcaatgaag ggtccagtt gcttatgcat tgactgatg tgaatggct gtagtgattc tgaatcaagg tgattgtgat tatagtaca atgaagatga tgcattaat actgcataaa aagtgcctgt agatgacatg gtgaaaatat ttgacaggct tatggaagga ctacagcagc acgcatctcat aacagaacaa gaaattatct cagcttataa aatcaaacag agacttctag acaaaaacca ttgttgatga ggcagatgcc tctagaagag acgtttaaaa gccatcaaac acaatgcctc atcttccctg gaggaacccac ttcctgatcc ctcaactgt tctgatgttt ctctcatgt aagaaataaa aataaaaaat aaaaaaatat atattggtat gtaactacag gaaaaaata aaaaatatat agtgacagt aacctttcaa tcaaaactca gtatcataag tagagactga aaacttgccg ttattgattg ttgttattaa cagctgatac aggtattctg ctgatgctac tgctgcctag ttaccatgaa cacgtttttt cactattaat ggtgcgtcat attttttact ttaagtact tacgtgtgag taagtgaag aaaaatgatt ctatcagta gtatcaatga ttactcaat atctgaatca ccttgattca gaaccatttc agctgtttca ccacagatca atgaataaca gccatgta tgtcaaaaac ttcaatatcc acttctttca gccactactga gactctgga gtatactttt tgcatatgta aggaagtcag atttttttt</p>	Homo sapiens
73	CXC Chemokine Receptor 3	NM_001504	<p>NP_005192.1</p> <p>atcctgcacc agctgaagag gtgtcaaaac cacaacaaga ccaaggccat caggttggtg ctcattgg tcattgcatc ttacttttc tgggtcccat tcaacgtggt tctttcctc acttccctgc acagtatgca catcttgat gtagtagca taagccaaca gctgacttat gccaccatg tcacagaaat cattccttt actcactgct gtgtgaaccc tgttatctat gcttttggg gggagaagt caagaaacac ctctcagaa ttttcagaa agttgcagc caaatcttca actacctagg aagacaaatg cctaggaga gctgtgaaa gtcacatcc tgccagcagc actcctccc ttctccagc gtgactaca tttgtgag atcaatgaag actaaata aaaaacatt tctgaatgg catgtagta gcagtgcga aaggtgtggg tgtgaagg ttccaaaaa agttcagcat gaaggatgc atatatgtt ttgccaacac ttaaaacaca atgactggag acatagtgt gcatgcctgg cacaacatca agcctgtgat tgtgtttatt gatgatgtt aacaagtgt aactttaag gattctgtat gccaaagtga aaaaaagat gctgcaccc ctctatgac aaaaatatac ctccagagac tgtcagttag ctggaagaag tggatatga agtttgaca tcaatgaag ggtccagtt gcttatgcat tgactgatg tgaatggct gtagtgattc tgaatcaagg tgattgtgat tatagtaca atgaagatga tgcattaat actgcataaa aagtgcctgt agatgacatg gtgaaaatat ttgacaggct tatggaagga ctacagcagc acgcatctcat aacagaacaa gaaattatct cagcttataa aatcaaacag agacttctag acaaaaacca ttgttgatga ggcagatgcc tctagaagag acgtttaaaa gccatcaaac acaatgcctc atcttccctg gaggaacccac ttcctgatcc ctcaactgt tctgatgttt ctctcatgt aagaaataaa aataaaaaat aaaaaaatat atattggtat gtaactacag gaaaaaata aaaaatatat agtgacagt aacctttcaa tcaaaactca gtatcataag tagagactga aaacttgccg ttattgattg ttgttattaa cagctgatac aggtattctg ctgatgctac tgctgcctag ttaccatgaa cacgtttttt cactattaat ggtgcgtcat attttttact ttaagtact tacgtgtgag taagtgaag aaaaatgatt ctatcagta gtatcaatga ttactcaat atctgaatca ccttgattca gaaccatttc agctgtttca ccacagatca atgaataaca gccatgta tgtcaaaaac ttcaatatcc acttctttca gccactactga gactctgga gtatactttt tgcatatgta aggaagtcag atttttttt</p>	Homo sapiens

74	CXC Chemokine Receptor 3	NP_001495.1	<p>gagccctct gctggcctgc atcagctttg accgtacct gaacatagtt catgccaccc agcttaacc cggggggccc cggggccgcg tgacctaac ctgctggct gtctgggggc tctgctgct tttgccttc ccagacttca tcttctgtc gggccaccac gagagcgcc tcaacgccac ccactgcaa tacaacttc cacagggtgg cgcacggct ctgcggtg tgagctggt gctggtgtt tccaggggcc agcggtgct ggcctactgc tatgccaca tctggcgtg gctgctggtt tccaggggcc agcggtgct ggcctactgc tatgccaca tggtggtgt ggtggccttt gcctctgct ggaaccccta tcacctggtg gtgctggtg acatctcat ggacctggc gctttggccc gaaactggg ccgagaaagc agggtagagc tgccaagt cgtcacctca ggcctgggt acatgactg ctgctcaac cgtgctct atgctttgt aggggtcaag ttccgggagc ggatgtgat gctgctctg cgcctgggt gccccacca gagaggctc cagaggcagc catgctctc cgcgggat tcactctggt ctgagacctc agaggctcc tactggggt tgtgaggcg gaatccggc tcccttctg ccacagtct gacttcccg gactccagg tctccctcc cctgcccgc tctgctctc cccaatacc tgcctcccg gactcactg cagccagc accaccagt cctccggaa gccacctcc cagctctgag gactgcacca ttgctctcc ttagctgca agccccatc tgccgccga ggtggtgctc tgagcccca ctgctctct cattggaaa ctaaaacttc atctcccca agtgcggga gtacaaggc tggcgtagag ggtgctgcc catgaagcca cagccaggc ctccagctca gcagtactg tggcctggt ccccaagacc tctatattg ctctttatt ttatgtcta aaatcctgt taaaacttt caataaaca gatcgtcagg acaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa</p>	Homo sapiens
75	CXC Chemokine Receptor 4	NM_003467	<p>gtttgttggc tgcggcagca ggtagcaag tgacgcgag ggcctgagt ctccagtagc A caccgatct ggagaaccag cggttaccat ggagggtatc agtatataa cttcagataa ctacaccgag gaaatggct caggggacta tgactccatg aaggaaacct gtttccgtga agaaaatgct aatttcaata aaatcttct gccaccatc tactccatca tcttcttaac tgccattgt ggcaatggat tggctatctt ggctatgggt taccagaaga aactgagaag catgacggac agtacaggc tgcacctgtc agtggcgag ctcctcttg tcatcacgt tcccttctgg gcagttgat ccgtggcaaa ctggtacttt gggaaacttc tatgcaaggc agtccatgtc atctacacag tcaacctcta cagcagtgc ctcatcctg ccttcatcag tctggaccgc tacctggcca tctgccagc cacaacagt cagaggccaa ggaagctgtt ggctgaaaag gtggtctatg ttggcgtctg gatccctgcc ctcctgtga ctatcccg cttcatcttt gccaacgtca gtgaggcaga tgacagatat atctgtgacc gcttctacc caatgacttg tgggtggttg tgttccagtt tcagcacatc atggttgccc ttatcctgcc tggtattgtc atcctgtctt gctattgcat tatcatctc aagctgtcac actccaagg ccaccagaag cgaaggccc tcaagaccac agtcatctc atcctggctt tcttcgctg</p>	Homo sapiens

Homo
sapiens

P

NP_003458.1

CXC

753

76

Chemokine
Receptor 4

ttggctgct tactacattg ggatcagcat cgactccttc atcctcctgg aaatcatcaa
gcaagggtgt gagtttgaga acaactgtgca caagtggatt tccatcaccc aggccttagc
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tgtttcatat tgatgtgtgt ctaggcagga cctgtggcca agttcttagt tgcgtatgt
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tgtacagtct tgtattaagt tgttaataaa agtatcatgt aaacttactt agtgttatg
MEGISIYTS NYTEEMSGD YDSMKPCFR EENANFNKIF LPTIYSIIFL TGIVNGLVI P
LVMGYQKKLR SMTDKYRLHL SVADLLFVIT LPFWAVDAVA NWYFGNFLCK AVHVIYTVNL
YSSVLILAFI SLDRYLAIVH ATNSQRPRL LAEKVVYGV WIPALLITIP DFIFANVSEA
DDRYICDRFY PNDLWVWFQ FQHIMVGLIL PGIVILSCYC IISKLSHSK GHQKRKALKT
TVILILAFEA CWLPYYIGIS IDSFLLEII KQCEFEFNTV HKWISITEAL AFFHCCINPI
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cgggaaatct tcactacaga caaccataat agatgtggct acaaatgtg tctctccagc
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gttcagcgc ctggagaaat gaatgatagg ttagatcctt cctctttcca acaaatgat
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agccactgg ataaactga tgttttctc tctactcatt taaagctgtt ccttagcgt
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gtggtgtgtg ctgtcttct tgtctgttg actccatacc acatttttg agtctgtca
ttgcttactg accagaaaac tcccttgggg aaaactctga tgcctggga tcatgtatgc

Homo
sapiens

A

NM_004054

Complement

755

77

Component 3a
Receptor 1

78	755	Complement Component 3a Receptor 1	NP_004045.1	<p> attgctctag catctgcaa tagttgcttt aatcccttcc tttatgcctt cttggggaaa gatttagga agaaagcaag gcagtccatt cagggaaattc tggaggcagc cttcagtgag gagctcacac gttccacca ctgtccctca acaaatgtca tttcagaaa aatatgtaca actgtgtga TDLLSQPWE PPVILSMVIL SLTFLGLGPG NGLVLWVAGL KMQRIVNTIW P FLHLTLADLL CCLSLPFLSLA HLAIGGQWPY GRFLCKLIPS IIVLNMFAV FLTAISLDR CLVFKPIWC QNHRNVGMAC SICGIIWVA FMCIPVFY REIFTDNHN RCGYKFGLS SLDYPDFYGD PLENRSLENI VQPPGEMNDR LDPSSFQND HPWTVPTVFQ PQTFQRP SLPRGSARLT SQNLYSNVFK PADVSPKIP SGFPIEDHET SPLDNSDAFL STHLKLFP SSNSFESEEL PQGFQDYNNL GQFTDDQVP TPLVAITIR IIVGFLLPV IMIACYSFIV FRMQRGREFAK SQSKTRFVAV VVAVFLVCM TPHYHFGVLS LLTDPETPLG KTLMSWDHVC IALASANSCE NPFLYALLGK DFRKKARQSI QGILEAAFE ELTRSTHCPS NNVISERNST TV </p>	Homo sapiens
79	758	Complement Component 5a Receptor 1	NM_001736	<p> agggggagcc caggagacca gaacatgaac tccttcaatt ataccaccc tgattatggg A cactatgatg acaaggatac cctggacctc aacacccctg tggataaaa ttctaacacg ctgcgtgttc cagacatcct ggccttggtc atctttgag tctgttctct ggtgggagt ctgggcaatg ccttggtggt ctgggtgacg gcattcgagg ccaagcggac catcaatgcc atctgggtcc tcaacttggc ggtagccgac ttcctctcct gcctggcgt gccatcttg ttcacgtca ttgtacagca tcaccactgg ccttttggc gggccgctg cagcatcctg cctccctca tctgtctcaa catgtacgcc agcttctgc tctggccac catcagcgcc gaccgcttc tgcgtggtt taaacccatc tgggtgccaga acttcagg ggcggcctg gcctggatcg cctgtgccgt ggcttgggt ttagccctgc tgctgacct accctcctc ctgtaccggg tggctcggga ggagtactt ccaccaagg tgtgtgtg cgtggactac agccacgaca aacggcggga gcgagccgtg gccatgtcc ggctgtcctt gggttctctg tggcctctac tcacgctcac gattgttac actttcacc tgctccggac gttggagccgc agggccacgc ggtccacca gacactcaag gtggtggtg ccttccctga gccatcgtca atcttctggt tgcctacca taagctggac tccctgtgtg tctcctttgc ctacatcaac ccaccttcc tgcgtctgaa taagctggac tccctgtgtg gcttccagg cagactgcgg tgctgcatca acccatcat ctacgtggtg gccggccagg agtccaggt tagggagagc aatccctcc ccagcctcct ccggaacgtg ttgactgaag agtccgtggt tagggagagc aagtcaattca cgcgtccac agtggacact atggccaga agaccaggc agttaggagc acagcctcat gggccactgt gggccgatgt cccctcctt cccggccatt cctcctctg ttttcacttc actttctgtg ggtggtgtt accctagcta actaaactc cctcatgtt cctgtcttc ccagactgt cctccttctt ccagcgggac tcttctcat cctcctcat tgcaagggtga acactcctt ctaggagga cctccacc cccacccc cccacacac catctttcca tccaggctt ttgaaaaa caacagaaac cgtgtatctg gatatattcc atatggcaat aggtgtgaac agggaaacta gaatacatgt aactggaat tcaaaagttc aaaaaatgt atttattta tggcaagtgt gaaaatagt aactggaat tcaaaagttc tttgggacaa aacagaagtc catggagtta tctaagctct tgaagttag ttaatttaa aaagaaaatt aggtgagag cagtggctca cgcctgtaat cccagaact tgggaggtc aggtgggtg atcacctgag gtcaagagtt ccagaccagg ctggccagca tggtagaaac </p>	Homo sapiens

80	758	Complement Component 5a Receptor 1	NP_001727.1	<p> cgtctgtac taaaaataca aaaaaataac tgggcatggt agtgggtgccc tgtaatccca gctacttggg aggtgaggt gggagaattg ctcgaacctt ggagtgagg gtgtgtgga gccatgacg caccactga ctctagcctg ggtgaccgag ggaggtctctg tctcaaaagc aaagcaaaaa aaaaaacaa aacactaaa aaacctgag tttgtttgt acttgtttt taaatatgc tttctattt gagatcattg caaactcaac aaattgttaa gtaatgatac agagggatct tgtgtacct tcaaccagcc tcccccaatg caacatctt gcaaaactac aatgtagtct cataaccag atattgacat tgatacagtg aagatacagg acattctcat caccacagg atccccagga tggcaactt cctccacc caccaccag cgtgtccct aacccctggc aaccaggaat ccaactctcca tttctataat gttgtcattt caagaatgtt attcaatgga atcatatagt atgtaacctg ttttgagctt aaaaaaaaa gatacatga ctttaatgag gaaaaataaa atgaatatgt aaaaaaaaa ctttagag MNSFNTPD YGHYDDKDTL DLTTPVDKTS NTLRPDILA LVIFAVFLV GVLGNALVW P VTAFEAARTI NAIWFLNLAV ADFLSCLALP ILFTSIVQHH HWPFGGAACS ILPSLILNM YASILLIATI SADRFLLVFK PIWCQNFRA GLAWIACAVA WGLALLITIP SFLYRVVREE YFPPKVLGV DYSHDKRRER AVAIVRLVLG FLWPLLTIT CYTFILLRTW SRRATRSTKT LKVVAVVVAS FFIWLPYQV TGIMMSFLEP SSTFLLLNK LDSLCVSFAY INCCINPIIY VWAGQGFQGR LRKSLPSLLR NVLTEESVVR ESKSFTRSTV DTMAQKTQAV </p>	Homo sapiens
81	767	Calcitonin Receptor-like Receptor	NM_005795	<p> gcacgagga acaacctct tctctscagc agagagtgc acctcctgt ttaggacctat A caagctctgc taactgaatc tcatccta at tgacagga ccatgcaaa gcttccactct ttcccacctt gcttgggtt aaatctcttc tgcggatct cagaaagtaa agtccatcc tgagaatatt tcacaaagaa tttctttaag agtggactg ggtcttgacc cctggaaattt aagaaattct taaagacaat gtcaaatatg atccaagaga aaatgtgatt tgagtctgga gacaattgt catatcgtct aataataaaa acccatacta gcctatagaa acaaatattt gaataataaa aaccatact agcctataga aaacaatatt tgaagattg ctaccactaa aaagaaaact actacaactt gacaagactg ctgcaaaact caattggta ccacaacttg acaagggtgc tataaaacaa gattgctaca acttctagt tatgtttac agcatatttc atttgggctt atgtatggag aaaaagtga cctgtattt tctggttctc ttgctttttt ttatgattct tgttacagca gaattagaag agagtctga ggaactcaatt cagtgggag ttactagaaa taaaatcatg acagctcaat atgaatgta ccaaaagatt atgcaagacc ccattcaaca agcagaaggc gtttactga acagaacctg ggtggatgg ctctgctgga acgatgttgc agcaggaact gaatcaatgc agctctgccc tgattactt caggactttg atccatcaga aaaagttaca agatctgtg accaagatgg aaactgggtt agacatccag caagcaacag aacatggaca aattataccc agtgaatgt taacacccc gagaaagtga agactgcact aaattgttt tacctgacca taattggaca cggattgtct attgcatcac tgcttatctc gcttggcata tttttttt tcaagacctt agttgcca aggtattacct tacacaaaaa tctgttcttc tcatttgtt gtaactctgt tgaacaatc attcacctca tcagcagttgc caacaaccag gcttagtag ccacaaatcc tgttagttgc aaagtgtccc agttcattca tctttacctg atgggctgta attactttg gatgctctg gaaggcattt acctacacac actcattgtg gtggccgtgt ttgcagagaa caacattta atgtgttatt atctcttgg ctggggattt ccaatgattc ctgctgtat acatgccatt gctagaagct tatattacaa tgacaattgc tggatcagtt ctgataccca tctctctac attatccatg </p>	Homo sapiens

82	767	Calcitonin Receptor-like Receptor	NP_005786.1	MEKKCTLYFL VLLPFFMILV TAELEESPED SIQLGVTRNK IMTAQYECYQ KIMQDPIQQA P	Homo sapiens
				EGVYCNRTWD GWLCWNDVAA GTESMQLCPD YFQDFDPESEK VTKICDQDGN WFRHPASNRT	
				WTNYTQCNVN THEKVKTNLN LFYLTIIIGHG LSIASLLISL GIFFYFKSL S QQRITLHKNL	
				FFSFVCNSVW TIIHLTAVAN NQALVATNPV SKVSVQFIHL YLMGCNYFWM LCEGIYLIHTL	
				IVVAVFAEKQ HLMWYIFLGW GFPLIPACIH AIARSLYND NCWISSDTHL LYIHHGPICA	
				ALLVNLFFLL NIVRVLIITKL KVTHQAESNL YMKAVRATLI LVPLLLGIEFV LIPWRPEGKI	
				AEVVDYIMH ILMHFQGLLV STIFCFNGE VQAILRRWN QYKIQFGNSF SNSEALRSAS	
				YTVSTISDGP GYSHDCPSEH LNKSIHDIE NVLLKPENLY N	
83	832	Cannabinoid Receptor 1	NM_001840	ggggactacg gagagctctg caggagcgcg agggcccccgc ccggggccaa ggaagctctg A	Homo sapiens
				tcccaggac caggggatgc gaaggatg cccctgtgg gtcactttct cagtcatttt	
				gagctcagcc taatcaaga ctgaggttat gaagtcgac ttagatggcc ttgcagatac	
				cacctccgc accatcaca ctgacctctt gtacgtgggc tcaaatgaca ttcagtagca	
				agacatcaaa ggtgacatgg catccaaatt aggttacttc ccacagaaat tccctttaac	
				ttccttagg ggaagtcctt tccaagagaa gatgactgcg ggagacaacc ccagctagt	
				gccccatttg tgctgcttta ctggtgaatc ttttttctt gttaaaattt gtacgcgttc	
				tcataccaa gttaaaagtt acacaccaag cggaatccaa tctgtacatg aaagctgtga	
				gagctactct tatcttggtg ccattgcttg gcattgaatt tgtgctgatt ccatggcgac	
				ctgaaggaaa gattgcagag gaggtatatg actacatcat gcacatcctt atgcacttcc	
				aggtctttt ggtctctacc atttctgct ttttaattg agaggttcaa gcaattctga	
				gaagaaaactg gaatcaatc aaaatccaat ttggaacag cttttccaac tcagaagctc	
				ttcgtagtgc gtcttacaca ggtcaacaa tcagtatgg tccaggttat agtcatgact	
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				gggaatgtca taaagaagag ccttcacatg aaattagtag tgtgttgata agagtgtaac	
				atccagctct atgtgggaaa aaagaaaatcc tggtttgtaa tgtttgtcag taaatactcc	
				cactatgctt gatgtgacgc tactaacctg acatcaccaa gtgtggaatt ggagaaaagc	
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				gacctagcta aggtctataa acatgaaggg aaatttagct tttagtttta aaactcttta	
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				ttctataca ttaggaaaac atcttagttg atgctacaaa acacctgtgc aacctcttcc	
				tgctatacca aacagtggga gggaaattctt agctgtaaat ataaaatttg ccttccatt	
				tctactgtat aaacaaatta gcaatcattt tatataaaga aaatcaatga aggattttctt	
				atcttcttgg aattttgtaa aaagaaattg tgaaaaatga gcttgtaaat actccattat	
				tttattttat agtctcaaat caaatacata caacctatgt aattttttaa gcaatatat	
				aatgcaacaa tgtgtgtatg ttaatatctg atactgtatc tgggctgatt ttttaataa	
				aatagagtct ggaatgct	

84	832	Cannabinoid Receptor 1	NP_001831.1	<p> cagtgagag caggtgaaca ttacagaatt ttacaacaag tctctctcgt ccttcaagga gaatgagag aacatccagt gtggggagaa cttcatggac atagagtgtt tcatgtctct gaacccagc cagcagctgg ccattgcagt cctgtccctc agctgggca ccttcaaggt cctggagaac ctctgtgtgc tgtggtcat cctccactcc cgcagcctcc gctcagggcc ttcataccac ttcatcgga cctggcggt ggcagacctc cttgggagtg tcattttgtt ctacagcttc attgacttcc acgtgttcca cgcgaaagat agccgcaacg tgtttctgtt caaaactgggt ggggtcacgg cctccttcac tgcctccgtg ggcagcctgt tctcagcgc catcgacagg tacatatcca ttcacaggcc cctggcctat aagaggattg tcaccaggcc caaggccgtg gtggcgtttt gctgatgtg gaccatagcc attgtgatcg ccgtgctgcc tctcctgggc tggaaactgc agaaactgca atctgtttgc tcagacattt tccacacat tgatgaaacc tacctgatgt tctggatcgg ggtcaccagc gtactgcttc tgttcatcgt gtatgcgtac atgtatatcc tctggaaggc tcacagccac gccgtccgca tgattcagcg tggcaccag aagagcatca tcatccacac gtctgaggt ggaaggtac aggtgacccg gccagaccac gccgcagtg acattaggtt agccaagacc ctggtcctga tctgtgtgtt gttgatcac tctgtggggc cctgtcttgc aatcatgttg tatgatgtct ttgggaagat gaacaagctc attaagacgg tgtttgcatt ctgcagtagt ctctgcctgc tgaactccac cgtgaacccc atcatctatg cctgaggag taaggacctg cgacacgctt tccggagcat gtttccctct tgtgaaggca ctgcgagcc cctggatac agcatggggg actcgagctg cctgcacaaa cagcaaaa atgcagccag tgttcacagg gccgcagaaa gctgcacaa gagcacgtc aagattgcca agttaacct gtctgtgtcc acagacacgt ctgcccagggc tctgtgagcc tgatgcctcc ctggcagcac aggaagaaagaa ttttttttt taagctcaaa atctagaaga gtctattgtc tcttgggta ttttttttta actttaccat gctcaatgaa aagtgattg ccacatgtca cttattgtct tagtttccgt ttgggctaatt ctccgggggt tcgtaggaac ccttt </p>	Homo sapiens
85	833	Cannabinoid Receptor 2	NM_001841	<p> caggtcctgg gagagacag aaaaactg gactcctcag cccccggcag ctcccagtc A ccagccacc acaacaaac ccaagcctt ctagacaagc tcagtggaaat ctgaagggcc caccctatgg aggaatgctg ggtgacagag atagccaatg gctccaagga tggcttggat tccaacctta tgaaggatta catgatcctg agtgcctccc agaagacagc tgtgctgtg tctgcaactc tctgggacct gctaaagtgc cttggagacg tggctgtgct ctatctgac ctgtcctccc accaactccg ccggaagccc tcatacctgt tcattggcag ctgggctggg gctgacttcc tggccagtggt ggtctttgca tgcagctttg tgaatttcca tgttttccat gggtgggatt ccaaggctgt ctctctgctg aagattgga cgtgactat gaccttcaca gcctctgtgg gtagcctcct gctgaccgcc attgaccgat acctctgctt gcgctatcca </p>	Homo sapiens

86	533	Cannabinoid Receptor 2	NP_001832.1	MEECWVTEIA SHQLRRKPSY VGSLLLTALD ELFPLIPNDY VRLAKTLGLV LRSGEIRSSA	NGSKDGLDSN LFIGSLAGAD RYLCRLRPPS LLSWLLFIAT LAVLLICWFP HHCLAHWKKC	PMKDYMLISG FLASVVFACS YKALLTRGRA LFSGLIITYG VLALMAHSLA VRGLGSEAKE	PQKTAFAVLIC FVNFHFHGV LVTLGIMWVL HVLWKAHQHV TTLSDQVKKK EAPRSSVTET	TLGLLSALE DSKAVFLLKI SALVSYLPLM ASLSGHQDRQ FAFCSMLCLI EADGKITPWP	NVAVLVILIS GSVTMTFTAS GWTCPPRPCS VPGMARWRLD NSMVPVIYA DSRDLDSLDC	Homo sapiens
87	922	Leukocyte Antigen CD97	NM_001784	agcctgtgga agctccaacc agctgaaacc caatgccacc cccgacggag aaaattctcg tgagcctgtt ggacgagtgc gggttcatac ccaaaaggac gacaaagctca agctcctgga gctctcaaac	gacgggacacg atgggaggcc caggactcca gactgtcgct actgtgacg gactgctgga tctggggcaa agctccgggc agctgccgct actgtctgtg gactgtctgc ccatccagaa gacgtagagg tcatgaagata	ccctgtccca gcgtctcttc gggtctgtgc gcaatccagg acatcaacga acacagaggg aaacattcaa agcatcagtg gcccgggata gaatgagagc tgacagctcc ctggaaagccc tatgatcgac tgcctgagga tgcctgagga	ctcactcttt cgcattctgt ccggtggtgc gttcagctct gtgtgcaaca gagctacgac gaatgagagc tgacagctcc ctggaaagccc tcttcacc gattcttcga ccatccagaa cctggcgcc tcatgaggat	ccccgtccgc gtctgctgta cctcagaact ttttctgaga ccgtcgaaaag tgcgtgtgca gagaacacct accgtctgct agacacggaa tggacccccg gacctgggca ttggtggatg cacctcatag agcctgccta	ccccagggc ctctgcccgg cctcagaact tctcagctgc tgcacgaaa gccccggata gtcaagatgt tcaacacctg tcccgaataa ccccggaggt gacctgccc aactgatgga ccaccagct aaggccccct	Homo sapiens

88	Leukocyte Antigen CD97	NP_001775.1	<p> caccatacatt tcccccttgcg aacagagagct gaccctgatg atccaggagc ggggggacaa gaacgtcact atgggtcaga gcagcgcacg catgaagctg aattgggctg tggcagctgg agccgaggat ccaggccccg ccgtggcggg catcctctcc atccagaaca tgacgacatt gtggccaat gctccttga acctgcatc caagaagcaa gccgaactgg aggagatata tgaagcagc atccgtggtg tccaactcag accctctct ttcgccttct ccatcttct gagccacaac aacaccaagg aactcaactc cccatctct ttcgccttct cccacttga gtcctccgat ggggagggcg gaagagaccc tcttgccaag gactgatgc ctgggccacg gcaggagctg ctctgtgct tctggaagag tgacagcgac aggggagggc actgggccac cgaggtctgc caggtgctgg gcagcaagaa cggcagcacc acctgccaat gcagccacct gagcagcttt acgatacctta tggctcatta tgacgtggag gactggaagc tgacctgat caccagggtg ggaactggcg tgtcactctt ctgacctgctg ctgtgcatcc tcaattctct gctggtgctg cccatccagg gctcgcgac caccatacac ctgcacctct gcactgctt cttctggggc tccaccatct tcttgcccg catcgagAAC gaaggcgcc agtgggggct gcgtgccc ctggtggcg gctgctgca ctactgttc ctggccgct tctgctggat gagcctcgaa ggcctggag tctactttct tgtggtgcg gtgttccaa gccaggggct gagtaacgag tggctctgct tcatcttct tggcgtgcc ctgctcatcg tggcgtctc ggctgccat tacagcaagg gctacggcg cccagatac tgcgtgttg actttgagca ggcctctc tggagcttct tgggacctgt gacctcatc attttgtga atgctgtcat ttctgtgact accgtctgga agctcactca gaagtcttct gaaatcaatc cagacatgaa gaaattaaag aaggcgagg cgtgacctc cagggccatc gcgcagctct tctgtttggg ctgcacctgg gtctttggcg tgttcatctt cgacgtatcg agcttggctg tgacctatgt gtttaccatc ctcaactgct tgcaggcgcg ctctctctac ctgctgcat gccctgctcaa caagaagggt cgggaagaat accggaagt ggcctgccta gttgctggg ggagcaagta ctcagaatc acctccaca cgtctggcac tggccacaat cagaccggg cctcagggc atcagagctc ggcataatgaa ggcgcatggt tctggacggc ccagcagctc ctgtggccac agcagctttg tacacgaaga ccatccatcc tccctctc caccactcta ctccctccac cctccctccc tgatccctg tgcaccagg agggagtgc agctatagtc tggcaccaaa gtccaggaca cccagtggg tggagtggg gccactggtc ctgctgctg ctgctctct gctccacctt gtgaccagg gtggggacag gggctggcc agggctgcaa tgcagcatgt tgccctggca cctgtggca gtactcgga cagactaagg gcgcttgctc cactctggac tttctctc atgtcttgc tgcagaactg aagagactag gcgctgggc tcagcttccc tcttaagcta agactgatg cagagggccc atggcgaggc ccttggggc cactgctga ggctacgggt acagaggcct gccctgctg gccgggcagg aggttctcac tgtgtgaa gtgtgagacg ttgtgtaatg tgttttctc tgttaaaatt tttcagtgtt gacactaaa attaaacaca tgcatacaga aaaaaaaaa a </p>	Homo sapiens
922			<p> TCDDINECAT PSKVSCKFS DCWNTGSDY CVCSPPGVEP VCNCTMTFST WTPPGVHSQ SSGQHQCDSS TVCENTGVSY SCRCRPWKP RHGIPNNQKD TVCEDMTFST WTPPGVHSQ TLRFFDKVQ DLGRDSKTS AEVTIQNVK LVDELMEAPG DVEALAPPVR HLIATQLLSN LEDIMRIIAK SLPKGPFTYI SPSNTELTLM IQERGDKNVT MGQSSARMKL NWAAGAED PGPAVAGILS IQNMTTLLAN ASLNLSKKQ AELEIYESS IRGVLRLLS AVNSIFLSHN </p>	

89	941	EMR1 Hormone NM_001974 Receptor	Homo sapiens
<p> NTKELNSPIL FAFSHLESSD GEAGRDPPAK DVMPGPRQEL LCAFWKSDSD RGGHWATEVC QVLGSKNGST TCQCSHLSSF TILMAHYDVE DWKLTILITRV GLALSFLCLL LCILTFLLVR PIQGSRTTIH LHLICICLFVG STIFLAGIEN EGGQVGLRCR LVAGLLHYCF LA AFCWMSLE GLELYFLVVR VFQGGGLSTR WCLIGYGVV LLIIVGSAAI YSKGYGRPRY CWLDFEQGFL WSFLGPVTFI ILCNAVIFVT TWKLTQKFS EINDPMKKLK KARALITITAI AQLFLGCTW VFGLFIFDDR SILVTYVFTI LNCLOGAFLY LHCLLNKKV REEYRWACL VAGSKYSEF TSTTSGTGHN QTRALRASES GI </p>			
			<p> cttaaagtgtt ttctttgaa tgacagaact acagcataat gcgtggcttc aacctgctcc A tctctgggg atgttgtgt atgcacagct gggaaggga cataagacc acaggaaac caaacacaaa gggtataaac tgtagagaca gtaccttgtg cccagcttat gccacctgca ccaatacgtt ggacagttac tattgcactt gcaaacaaag cttcctgtcc agcaatgggc aaaatcactt caaggatcca ggagtgcgat gcaaaagatat tgatgaatgt tctcaaaagcc ccagccctg tggctcctaac tcatcctgca aaacctgtc agggagggtac aagtgcaagt gtttagatgg ttctcttctt cccactggaa atgactgggt cccaggaaag ccgggcaatt tctcctgtac tgatatcaat gactgcctca cagcagggt ctgccctgag cattctgact gtgtcaactc catgggaagc tacagttgca gctgtcaagt tggattcatt tctagaaact ccacctgtga agacgtgaat taactctgtt tctgcaacc aggatttgaa tccagcagtg gtaataaac tgttggaaac taactctgtt tctgcaacc aggatttgaa tccagcagtg gccacttgag ttgccagggt ctcaaacgat cgtgtgaaga tattgatgaa tgcactgaaa tgtgccccat caattcaaca tgcaccaaca ctctctggag ctacttttgc acctgccacc ctggcttgc accaagcagt ggacagttga atttcacaga ccaaggagtg gaatgtagag atattgtga gtgcgcgcaa gatccatcaa cctgtgttcc taattctatc tgcaccaatg ccttgggtc ctacagctgt ggctgcattg taggttttca tcccaatcca gaaggctccc agaaagatgg caacttcagc tgcacaagg tctcttcca atgtaaggaa gatgtgatac ccgataataa gcagatccag caatgccag agggaaaccg agtgaaacct gcatatgtct ccttttgtc acaataaata acatcttca cgttcttgga caaagtgtgt gaaaaataaa cgaccgtagt ttctctgaag aatacaactg agagctttgt cctgtgtctt aaacaaatat ccatgtggac taaattcacc aaggaagaga cgtcctcctt gccacagtc tctctggaga gtgtgaaaag catgacactg gcatctttt ggaaacctc agcaaatgtc actccggctg ttcggggcga atacttagac attgagagca agttatcaa caaagaatgc agtgaagaga atgtgacgtt ggacttgga gccaaagggg- ataagatgaa gatcgggtgt tccacaattg aggaatctga atccacagag accactggtg tggcttttgt ctcctttgtg ggcattggaat cggttttaa tgagcgttc ttccaagacc accaggtctc cttgaccacc tctgagatca agctgaagat gaattctoga gtctgtggg gcataatgac tggagagaag aaagacggct tctcagatcc aatcatctac actctggaga agttcagcc aaagcagaag tttagagaggc ccatctgtgt ttcttgagc actgatgtga aggttgaag atggacatcc tttagctgtg tgatcctgga agcttctgag acatatacca tctgcaactg taatcagatg gcaaatcttg ccgttatcat ggctctggg gagtcacga tggacttttc ttgtacatc attagccatg taggcattat catctccttg gtgtgcctcg tcttgccat cggcacctt ctgctgtgtc gctccatccg aaatcacaac acctacctcc acctgacat ctgcgtgtgt ctcctcttgg cgaagactct ctctctcgcc ggtatacaca agactgacaa caagacgggc tgcgccatca </p>

90	EMR1 Hormone NP_001965.1 Receptor	<p> tgcggggtt cctgcactac cttttccttg cctgtcttctt ctggatgctg gtggaggctg tgatactgtt cttgatgggtc agaaactga aggtggtgaa ttacttcagc tctcgcaaca tcaagatgct gcacatctgt gcctttggtt atgggtgctg gatgctggtg gtggtgatct ctgccagtgt gcagccacag ggctatgaa tgataatcg ctgctggctg aatacagaga caggttctat ctggagtctt ttggggccag ttgcacagt tatagtatc aactcccttc tctgacctg gacctgtggt atctgaggc agaggcttc cagtgttaat gccgaagtct caacgctaaa agacaccagg ttactgacct tcaaggcctt tgcccagctc ttcatcctgg gctgctcctg ggtgctgggc atttttcaga ttggacctgt ggcatgtgtc atggcttacc tgttaccat catcaacagc ctgcaggggg ccttcattct cctcatccac tgtctgctca acggccaggt acgagaagaa tacaagaggt ggatcactgg gaagacgaag ccagctccc agtcccagac ctcaaggatc ttgctgtcct ccatgccatc cgttccaag acgggttaaa gccttctctg ctttcaata tgctatggag ccacagtga ggacagtatg ttctgaggg agctaccct gaaatctctt ctacagctta catggaatg aggtatccac cagccccaga acctctggg gaagaatgtt gggggcgtc ttctgtggtg tgatgacct gatgagaaat cagacgttct tgctccaaac gacctttta tcttctgct ctgcaacttc ttcaattcca gagttctga gaacagacc aaattcaatg gcatgaccaa gaacacctgg ctaccattt gtttctctt gccctgtgtg gtgcatggtt ctaagcgtgc cctccagcg cctatcatac gcctgacaca gagaacctct caataaatga tttgtcgct gtctgactga ttacccttaa aaaaaaaa aaaaaaaaaa MRGNLLLFW GCCVMHSEW HIRPRKPNK KGNCRDSTL CPAYATCTNT VDSYYCTCKQ P GFLSSNGQNH FKDPGVRCCK IDECSQSPQ CGPNSCKNL SGRYKCSCLD GFSSPTGNDW VPGKPGNFCS TDINECLTSR VCPHSDCVN SMGSYSCSCQ VGFISRNSTC EDVNECADPR ACPEHATCNN TVGNYSFCFN PGFESSGHL SCQGLKASCE DIDECTEMCP INSTCNTPG SYFCTCHPGF APSSGQLNFT DQVECRDID ECRQDFSTCG PMSICTNALG SYSCGIVGF HPNPEGSKD GNFSQORVLE KCKEDVIPDN KQIQCCQEGT AVKPAYVFC AQINNI FSVL DKVCENKTV VSLKNTTESF VPVLKQISMW TKFTKEETSS LATVFLESVE SMTLASEWKP SANVTPAVRA EYLDIESKVI NKECSEENV TLDLVAKGDKM KIGCSTIEES ESTETTGVAF VSFVGMEVL NERFFQDHQA PLTSEIKLK MNSRVVGGIM TGEKKDGFSD PIITYLENVQ PKQKFERPIC VSWSTDVKGK RWTSEFCVIL EASETYTICS CNQMANLAVI MASGELTMDF SLYIIISHVGI IISLVCLVLA IATFLLCRSI RNHNTYLHL LCVCLLLAKT LFLAGLHKT NKTGCAIITAG FLHYLFACF FWMLEAVIL FLVVRNLKV NYFSSRNIMK LHICAFGYGL PMLVVVISAS VQPGYGMHN RCWLNTETGF IWSFLGPVCT VIVINSLLT WTLWILRQRL SSVNAEVSTL KDRLLTFKA FAQLFILGCS WVLGIFQIGP VAGVMAYLFT IINSLOGAFI FLIHCLLNGQ VREEYKRWIT GKTKPSSQSQ TSRILLSSMP SASKTG ggaacacgac acctagaagt aggatgaga ttccctgaag ttccctctg aggaagaccc A acccctccg cttggagagcc gggctggcg gtccctgagg accctctcg cctggacagc ccacgcggc ttggggggcc tgcctctgcc ctcatgggc ggcctcgggt tcccgagcg gcgagtgaat attcaaatg ccagtggggg ggcactcgg aagtggccg ccgcgatgag tcagttcagc gggcccgaga gtccggggag ggaggttat tctccgcctg cagcagatct tgaatccgc aacctgagc aggagagcg gccctggtg ggaagagggc accaatctt ggacggcagg taccagaga gtgagcagct ccacgcggga ctgtgacgg tggccgacac </p>	Homo sapiens
941	941		
965	G Protein-Coupled Receptor GPR30	<p> ggaacacgac acctagaagt aggatgaga ttccctgaag ttccctctg aggaagaccc A acccctccg cttggagagcc gggctggcg gtccctgagg accctctcg cctggacagc ccacgcggc ttggggggcc tgcctctgcc ctcatgggc ggcctcgggt tcccgagcg gcgagtgaat attcaaatg ccagtggggg ggcactcgg aagtggccg ccgcgatgag tcagttcagc gggcccgaga gtccggggag ggaggttat tctccgcctg cagcagatct tgaatccgc aacctgagc aggagagcg gccctggtg ggaagagggc accaatctt ggacggcagg taccagaga gtgagcagct ccacgcggga ctgtgacgg tggccgacac </p>	Homo sapiens
91	91		

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tcatgtgcgg atcctt

Homo

P

EHQYVIGLF

ALANGTGELS

LNLSPILLGT

PAPNTTSPE

GLEMYPGTAQ

MDVTSQARGV

NP_001496.1

G Protein--

965

92

93	978	Cholecystoki nin A Receptor	NM_000730	LSCLYTIFF PIGFVGNILI LVVNISFREK MTIPDLYFIN LAVADLILVA DSLIEVFNH sapiens
				ERYDYDIATLC TFMSLFLOVN MYSSVFFLTW MSFDRIYALA RAMRCSLFRT KKHARLSGGL
94	978	Cholecystoki nin A Receptor	NP_000721.1	IWMASVSATL VFPTAVHLOH TDEACFCFAD VREVQWLEVT LGFIVPFALII GLCYSLIVRV sapiens
				LVRHRHRLGL RPRRQKALRM ILAVLVFFV CWLPENVFIS VHLQRTQPG AAPCKQSPRH
95	978	Cholecystoki nin A Receptor	NM_000730	AHPLTGHIVN LAAFSNSCLN PLIYSFLGET FRDKRLRYIE QKTNLPALNR FCHAALKAVI sapiens
				PDSTEQSDVR FSSAV
96	978	Cholecystoki nin A Receptor	NM_000730	ggaatggctg aaaaagccca cacttggaac tcactccctc cctgctcctc cagggcaggt A
				tgcatctgcg agacgcttcg gtcattagag gaatgagccg ggagtgagca attcaccagc
97	978	Cholecystoki nin A Receptor	NM_000730	tctccagcac ttggtggaac gcagcaggca aggatggatg tgggtgacag cctcttctgtg
				aatggaagca acatcactcc tccctgtgaa ctgaggctcg aaaaatgagac gcttttctgc
98	978	Cholecystoki nin A Receptor	NM_000730	ttggatcagc cccgtccttc caaagagtgg cagccagcgg tgcagattct cttgtactcc
				ttgatattcc tgcctcagct gctgggaac acgctggtea tcaccgtgct gattcggaac
99	978	Cholecystoki nin A Receptor	NM_000730	aagcggatgc ggacgggtcac caacatcttc ctcctctccc tggctgtcag cgacctcatg
				ctctgtctct tctgcatgcc gttcaacctc atccccaatc tgcctcaagg tttcatcttc
100	978	Cholecystoki nin A Receptor	NM_000730	gggagcgccg ttgcaagac caccacctac ttcattggga cctctgtgag tgtatctacc
				tttaactcgg tagccatata ccatgctttg aaggtgattg tgcctacctg gtgcctttcc
101	978	Cholecystoki nin A Receptor	NM_000730	cgggtctggc agacaaaatc cccattttat agcaacttgg tgccttttac caaaaataac
				tttaccatca tgactccgta cccattttat agcaacttgg tgccttttac caaaaataac
102	978	Cholecystoki nin A Receptor	NM_000730	aaccagaccg cgaatatgtg ccgctttcta ctgccaaaatg atgttatgca gcagtcctgg
				cacacattcc tgttactcat cctctttctt attcctggaa ttgtgatgat ggtggcatat
103	978	Cholecystoki nin A Receptor	NM_000730	ggattaatct ctttggaaat ctaccaggga ataaaatttg aggtagcca gaagaagtct
				gctaaaagaaa gaaacacctag caccaccagc agcgcaaat agaggacagc cgatgggtgt
104	978	Cholecystoki nin A Receptor	NM_000730	tacctgcaaa agaccaggcc ccgagaggaag ctggagctcc gccagctgct caccggcagc
				agcagcaggg ccaaccgcat ccggagtaac agctccgag ccaacctgat ggccaagaaa
105	978	Cholecystoki nin A Receptor	NM_000730	aggtgatcc gcatgctcat cgtcatcgtg gtccctcttc tctgtgctg gatgcccatc
				ttcagcgcca acgctggcg ggctacgac accgcctccg cagagcgccg cctctcagga
106	978	Cholecystoki nin A Receptor	NM_000730	accccatctt ccttcactct cctcctgtcc tacacctcct cctgctcaa ccccatcatc
				tactgcttca tgaacaaacg cttccgcctc ggcttcattg ccaccttccc ctgctgcccc
107	978	Cholecystoki nin A Receptor	NM_000730	aatcctggtc cccaggggcg gaggggagag gtgggggagg aggaggaag cgggaccaca
				ggagcctctc tgtccagggt ctctacagc catatgagt cctcgggtcc acccagtgga
108	978	Cholecystoki nin A Receptor	NM_000730	gatgtccctc gaccctccac cgcagaagga aggcaggag gaggcagaga agaaagaacg
				gaagaagaga tcaggaagag aaggagcaga gcagagctga tggagaagga aggtccatc
109	978	Cholecystoki nin A Receptor	NM_000730	tccagtggga actcttcaag gtctcttttc atcttctc tgaattccaga gcaatgctcc
				agtggggcca tgattggttt ctaggcagtt caaagcagga tatgttaagt aacactcaac
110	978	Cholecystoki nin A Receptor	NM_000730	catcag
				MDVVDSLLVN GSNITPPCEL GLENETLFLC DQPRSKEMQ PAVQILLYSL IFLLSVLGNT P
111	978	Cholecystoki nin A Receptor	NP_000721.1	LVITVLIRNK RMRVTNIFL LSLAVSDML CLFCMPNLI PNLLKDFIFG SAVCKTTYF sapiens
				MGTSVSVSTF NLVAISLERY GAICKPLQSR VWQTKSHALK VIAATWCLSF TIMTPYPIYS
112	978	Cholecystoki nin A Receptor	NP_000721.1	NLVPFTKNNN QTANMCRFLI PNDVMQSWH TFLLLIFLI PGIVMMVAYG LISLELYQGI
				KFEASQKKA KERKPTSS KYEDSDGKY LQKTRPRKL ELRLSTGSS SRANRIRNS
113	978	Cholecystoki nin A Receptor	NP_000721.1	SAANLMAKR VIRMLIVIV LFFLCWPIF SANAWRAYDT ASERRLSGT PISFILLISY

95	1103	Corticotropin releasing factor Receptor 2	TSSCVNPIIY CFMKNRRLG FMATFPCCPN PGPPGARGEV GEEEGGTTG ASLSRFSYSH MSASVPPQ	atggacgagg cactgtccca cagctgtgtg gagggcaact gcagcctggc gctggctgaa A gagctgctct tggacggctg tggggccacc ctggaccctg agggctcccta ctctactgc aacacgacct tggaccagt cggaacgtgc tggcccccga gcgctgcgg agccctcgtg gagaggcgt gccccagat ctccaacggc gtcaagtaca acacgaccg gaatgcctat cgagaatgct tggagaatgg gacgtgggccc tcaaatgaca actactaca gtgtgagccc attttggatg acaagcagag gaagtatgac ctgcactacc gcacgcccct tgttgtcaac tacctggccc actgcgtatc tgtggcagcc ctgggtggccg ccttctgct tttctggcc ctgcggagca ttgctgtct gcggaatgtg attcaactgga acctcatcac cactttatc ctgcgaaatg tcatgtggtt cctgtgtcag ctctgtgacc atgaagtga cgagagcaat gaggtctggt gccactgcat caccaccatc ttcaactact tctgtgtgac caacttcttc tggatgtttg tggaaaggctg ctacctgcac acggccattg tcatgacctc tccactgag cgctcgcca agtgccctct cctcttcac ggatggtgca tccccctccc catcatcgtc gcctgggcca tcggcaagct ctactatgag aatgaacagt gctgggtttg caagagacct ggcgacctgg tggactacat ctaccaaggc cccatcttc tctgtctct gatcaatttc gtatttctgt tcaacatcgt caggatccta atgacaaagt tacgcgcgtc caccacatcc gagacaatcc agtacaggaa ggcagtgaag gccacctgg tgcctcctgc cctcctgggc atcacctaca tgccttctt cgtcaatccc ggggaggagc acctgtcaca gatcatgttc atctatttca actccttctt cagtcgttct caggtttct tctgtctgt ctctactgc ttcttcaatg gagaggtgct ctcagccgtg aggaagagt ggcaccgctg gcaggacctc cactcccttc gagtcccat ggcgggggct atgtccatcc ctacatcac cacacggatc agcttcaca gcatcaagca gacggcgtct gtgtgacccc tgggtcgcac acctgcacag ctccccctgc ctctccacc ttcttctct ggggttctctg tctgtggcag gctctcgtg ggcaggagat gggaggggag agaccagctc tccagcctgg caggaaagag ggggtgcggc agccaaaggg gactgcaagg gacagggatg agtgggggccc accaggctca gcgcaagagg aagcagaggg aattcacagg acccctgag aagagccagt cagatgtctg caggcattg cccatccag cctctctggc caggccctta ctgggcccag agcagagaag gacctgtcca acacacacag ctatttatag tagcacac agggctcccc tgcctactc atggagccag cagccaggca atggtgtgccc cctgcactgg ccttggact ccacactcag tgggtccctg cagttgggtg ggttaacgcc aagcaaggga tcagtttggc tgccttatcc cagggtgtc acctagagag gctcacttgt accccacctt gttctctgt cccctccca gccatcctcc ccgcttgggg ggtccatga aggatgcagg ctccaggcc tggcttctc tcttgggaga ccccctctct ccctagtcca cagattaggc aatcaaggaa gacgccatca ggaagccac atccttagtc aaccagttgc atcgtgcggg gcaaatag gagcagagg atggaggagg gagggctggg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcataccca ttgccccttg cctccagtc tccccttcag aaacatctct gctctctgtg aaataaacca tgctctctgg	Homo sapiens
96	1103	Corticotropin releasing factor	MDAALHSIL EANCSLALAE ELLLDGWGPP LDPEGPYSYC NTTLDQIGTC WPSAAGALV P ERPCEYFNG VKYNTTRNAY RECLENGTWA SKINYSQCEP ILDDKQRKYD LHYRIALVWN YLGHCVSVAALVAALLFLA LRSIRCLRNVIHWNLTTFI LRNVWFLLQ LVDHEVHESN	atggacgagg cactgtccca cagctgtgtg gagggcaact gcagcctggc gctggctgaa A gagctgctct tggacggctg tggggccacc ctggaccctg agggctcccta ctctactgc aacacgacct tggaccagt cggaacgtgc tggcccccga gcgctgcgg agccctcgtg gagaggcgt gccccagat ctccaacggc gtcaagtaca acacgaccg gaatgcctat cgagaatgct tggagaatgg gacgtgggccc tcaaatgaca actactaca gtgtgagccc attttggatg acaagcagag gaagtatgac ctgcactacc gcacgcccct tgttgtcaac tacctggccc actgcgtatc tgtggcagcc ctgggtggccg ccttctgct tttctggcc ctgcggagca ttgctgtct gcggaatgtg attcaactgga acctcatcac cactttatc ctgcgaaatg tcatgtggtt cctgtgtcag ctctgtgacc atgaagtga cgagagcaat gaggtctggt gccactgcat caccaccatc ttcaactact tctgtgtgac caacttcttc tggatgtttg tggaaaggctg ctacctgcac acggccattg tcatgacctc tccactgag cgctcgcca agtgccctct cctcttcac ggatggtgca tccccctccc catcatcgtc gcctgggcca tcggcaagct ctactatgag aatgaacagt gctgggtttg caagagacct ggcgacctgg tggactacat ctaccaaggc cccatcttc tctgtctct gatcaatttc gtatttctgt tcaacatcgt caggatccta atgacaaagt tacgcgcgtc caccacatcc gagacaatcc agtacaggaa ggcagtgaag gccacctgg tgcctcctgc cctcctgggc atcacctaca tgccttctt cgtcaatccc ggggaggagc acctgtcaca gatcatgttc atctatttca actccttctt cagtcgttct caggtttct tctgtctgt ctctactgc ttcttcaatg gagaggtgct ctcagccgtg aggaagagt ggcaccgctg gcaggacctc cactcccttc gagtcccat ggcgggggct atgtccatcc ctacatcac cacacggatc agcttcaca gcatcaagca gacggcgtct gtgtgacccc tgggtcgcac acctgcacag ctccccctgc ctctccacc ttcttctct ggggttctctg tctgtggcag gctctcgtg ggcaggagat gggaggggag agaccagctc tccagcctgg caggaaagag ggggtgcggc agccaaaggg gactgcaagg gacagggatg agtgggggccc accaggctca gcgcaagagg aagcagaggg aattcacagg acccctgag aagagccagt cagatgtctg caggcattg cccatccag cctctctggc caggccctta ctgggcccag agcagagaag gacctgtcca acacacacag ctatttatag tagcacac agggctcccc tgcctactc atggagccag cagccaggca atggtgtgccc cctgcactgg ccttggact ccacactcag tgggtccctg cagttgggtg ggttaacgcc aagcaaggga tcagtttggc tgccttatcc cagggtgtc acctagagag gctcacttgt accccacctt gttctctgt cccctccca gccatcctcc ccgcttgggg ggtccatga aggatgcagg ctccaggcc tggcttctc tcttgggaga ccccctctct ccctagtcca cagattaggc aatcaaggaa gacgccatca ggaagccac atccttagtc aaccagttgc atcgtgcggg gcaaatag gagcagagg atggaggagg gagggctggg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcataccca ttgccccttg cctccagtc tccccttcag aaacatctct gctctctgtg aaataaacca tgctctctgg	Homo sapiens

Receptor 2	Dopamine Receptor D1	NM_000794	97	1240	Receptor 2
EWCHCITTI	FNFFVVTNFF	WMFVEGCVLH	TAIVMTYSTE	RLRKCLFLFI	GWCIPIIIV
AWAIGKLYE	NEQCWFGKEP	GDLDVYIQG	PIILVLLINE	VELFNIVRIL	MTKLRASTTS
ETIQYRKAVK	ATLVLPLLLG	ITYMLFFVNP	GEDDLSQIMF	IYFNSFLQSF	QGFVSVFYC
FFNGEVRSAV	RKRWRWQDH	HSLRVPNARA	MSIPTSPTRI	SFHSIKQTAA	V
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agccctctgc	tgctttccaa	cacacaatta	actccgtttc	caaatatatt	ccagtgtatt

Homo
sapiens

P

NP_000785.1

Dopamine
Receptor D1

1240

98

ttctgtgttg ttcatagtca atcaaacagg gacactacaa acatggggag ccataagggg
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MRTLNTSAMD GTGLVVERDF SVRLTACFL SLLILSTLLG NTLVCAAVIR FRHLRSKVTN
 FFVISLAVSD LLVAVLMPW KAVAEIAGFW PFGSFCNIWV AFDIMCSTAS ILNLCVISVD
 RYWAISSPFR YERKMTPKAA FILISVAVTL SVLISFIPVQ LSWHKAKPTS PSDGNATSLA
 ETIDNCDSSL SRTYAISVV ISFYIPVAIM IVTYTRIYRI AQKQIRRIAA LERAAVHAKN
 CQTTTNGKPK VECSPESSE KMSFKRETKV LKTLVIMGV FVCCWLPFFI LNCILPFCGS
 GETQFFCIDS NTFDVFVWFG WANSSLNPII YAFNADFRKA FSTLLGCYRL CPATNNAIET
 VSINNGAAM FSSHHEPRGS ISKECNILVYL IPHAVGSSSED LKKEEAAGIA RPLEKLSPAL
 SVILDYDITDV SLEKIQIPITQ NGQHPT

99

1241

Dopamine
Receptor D5

NM_000798

Homo
sapiens

A

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100	1241	Dopamine Receptor D5	NP_000789.1	MLPPGNSGTA YPGQFALYQQ LAQNAVGGGS AGAPPLGPSQ VVTACLILL IITWLLGNVL P VCAAIVRSRH LRANMTNVFI VSLAVSDLFV ALLVMPKRAV AEVAGYWPFG AFCDVWVAFD IMCSTASILN LCVISVDRYW AISRPFRYKR KMTQRMALVM VGLAWTSLIL ISFIPVQLNW HRDQAASWGG LDLPNNLANW TPWEEDFWEP DVNAENCDS LNRTYAISS LISFYIPVAI MIVTYTRIYR IAQVQIRRI SLERAEHAQ SCRSSAACAP DTSIRASIKK ETKVLKTLVS IMGVFCVCCWL PFFILNCMP FCSGHPEGPP AGFPCVSETT FDFVFWFGWA NSSLNPVIYA FNADFQKVEA QLLGCSHFCS RTPVETVNIS NELISYNQDI VFHKEIAAAY IHMMPNAVTP GNREVNDDEE EGFDFRMFQI YQTSPDGDPV AESVWELDCE GEISLDKITP FFPNGFH agagctatggc caccagtggt cctccagcgc ctgagtgatc cactgaatct gtcctggtat A gatgatgac tggagaggca gaactggagc cggcccttca cgggtcaga cgggaaggcg gacagaccc actacaacta ctatgccaca ctgctcacc ctgctcagc tgtcatcgc ttcggcaacg tctggtgtg catggtgtg tcccgagaga aggcgctga gaccaccac aactacctga tctcagcct cgcagtgcc gacctcctg tgcacact ggtcatgccc tgggttgtct acctggaggt ggtaggtgag tggaaattca gcaggattca ctgtgacatc ttcgtcactc tggacgtcat gatgtgcacg gcgagcatcc atagcgtga tgccatcagc atcgacaggt acacagctgt ggcctgccc atgctgtaca atacgcgta cagctccaa cgccgggtca ccgtcatgat ctccatcgtc tgggtcctgt ccttcacct ctcctgccc ctcctcttcg gactcaataa cgcagaccag aacgagtgca tcattgcaa ccggcccttc gtggtctact cctccatcgt ctcttctac gtgcccctca ttgtaccct gctggtctac atcaagatct acattgtct ccgcagacgc cgaagcgag tcaacacaa acgacgagc cgagctttca gggccacct gagggctcca ctaaaaggca actgtactca cccgaggac atgaaaactct gcaccgttat catgaagtct aatgggagtt tcccagtaa caggcgaga gtggaggctg ccggcgagc ccgatccca gagatgaga tgctctccag caccagcca ccgagagga ccggtacag ccccatccca cccagccac ccagctgac tctcccagc ccgtcccacc atggtctcca cagcactccc gacagccc ccaaacaga gaagaatggg catgccaaa accaccccaa gattgccaag atctttgaga tccagacct gcccaatggc aaaaccgga cctccctcaa gaccatgagc cgtaggagc tctcccagca gaaggagaag aaagccactc agatgtcgc cattgtctc ggcgtgtca tcatctgtc gctgcccctc ttcatcacac acatcctgaa catacactgt gactgaaca tcccgcctgt cctgtacagc	Homo sapiens
101	1242	Dopamine Receptor D2	NM_000795	agagctatggc caccagtggt cctccagcgc ctgagtgatc cactgaatct gtcctggtat A gatgatgac tggagaggca gaactggagc cggcccttca cgggtcaga cgggaaggcg gacagaccc actacaacta ctatgccaca ctgctcacc ctgctcagc tgtcatcgc ttcggcaacg tctggtgtg catggtgtg tcccgagaga aggcgctga gaccaccac aactacctga tctcagcct cgcagtgcc gacctcctg tgcacact ggtcatgccc tgggttgtct acctggaggt ggtaggtgag tggaaattca gcaggattca ctgtgacatc ttcgtcactc tggacgtcat gatgtgcacg gcgagcatcc atagcgtga tgccatcagc atcgacaggt acacagctgt ggcctgccc atgctgtaca atacgcgta cagctccaa cgccgggtca ccgtcatgat ctccatcgtc tgggtcctgt ccttcacct ctcctgccc ctcctcttcg gactcaataa cgcagaccag aacgagtgca tcattgcaa ccggcccttc gtggtctact cctccatcgt ctcttctac gtgcccctca ttgtaccct gctggtctac atcaagatct acattgtct ccgcagacgc cgaagcgag tcaacacaa acgacgagc cgagctttca gggccacct gagggctcca ctaaaaggca actgtactca cccgaggac atgaaaactct gcaccgttat catgaagtct aatgggagtt tcccagtaa caggcgaga gtggaggctg ccggcgagc ccgatccca gagatgaga tgctctccag caccagcca ccgagagga ccggtacag ccccatccca cccagccac ccagctgac tctcccagc ccgtcccacc atggtctcca cagcactccc gacagccc ccaaacaga gaagaatggg catgccaaa accaccccaa gattgccaag atctttgaga tccagacct gcccaatggc aaaaccgga cctccctcaa gaccatgagc cgtaggagc tctcccagca gaaggagaag aaagccactc agatgtcgc cattgtctc ggcgtgtca tcatctgtc gctgcccctc ttcatcacac acatcctgaa catacactgt gactgaaca tcccgcctgt cctgtacagc	Homo sapiens

102	1242	Dopamine Receptor D2	NP_000786.1	<p>gcttcaacgt ggctgggcta tgtcaacagc gccgtgaacc ccatcatcta cacaaccttc aacattagat tccgcaaggc cttctgaag atcctccact gctgactctg ctgctgccc gcacagcagc ctgcttccca cctccctgcc caggccggcc agcctcacc ttgcgaaccg tgagcaggaa ggctgggtg gatcgccctc ctctcttag ccccgccagg cctgcagtg ttcgctggc tccatgctcc tcaatgccc cacaacctca ctctgccagg cagtgtctag tgagctggc atggtaccag cctggggct cggcccgct caggggcagc tcatagagtc ccccctccca cctccagtc cctatcctt ggcacaaaag atgcagccg cttccttgac cttctctgg ggctctaggg ttgctggagc ctgagtcagg gccagaggc tgaatttct ctttgtggg cttggcgtgg agcaggcggg ggggagagat ggacagtca caccctgcaa ggccacagg aggcaagcaa gctctcttg cgaggagcca ggcaacttca gtcctgggag acccatgtaa ataccagact gcaggttggg cccgagagat tcccaagcca aaacacctag ctcctcccg caccctgatg tggacctcta cttccaggc tagtccggac ccacctcacc ccgttacagc tcccaagtg gttccacat ccttgagaa gaggagccct catcttgaag ggccagagag ggtctatggg gagaggaaat ccttgcccta gccaccttg ctgcttctg acggccctgc aatgtatccc tctcacagc acatgctgc cagcctggg cctggcaggg aggtcaggcc ctggaaactct atctggcct gggctaggga catcagaggt tcttgaggg actgctctg ccacactctg acgcaaaacc acttctctt tctatctct ctggccttc ctctctctg tttcccttc cttccactgc ctctgctta gaggagccca cggtaagag gctgctgaaa accatctggc ctggcctggc cctgccccga ggaaggagg gaagctgcag cttgggagag cccctgggc ctgactctg taacatcact atccgatgca ccaaaactaat aaaacttga cgaagtacac tc</p>	<p>MDPLNLSWYD DDLERQNSR PFNGSGKAD RPHYNYATL LTLLIAVIVF GNVLVMAVS P REKALQTTN YLIVSLAVD LLVATLVMPW VVYLEVGEW KFSRIHCDIF VTLDVMMCTA SILNLCAISI DRYTAVAMP LYNTRYSSKR RVTVMISIVW VLSFTISCPL LFGLNNADQN ECIIANPAFV VYSSIVSFYV PFIVTLLVYI KIYIVLRRR KRVTKRSSR AFRAHLRAPL KGNCTHPEDM KLCTVIMKSN GSFPVNRVV EAARRAQELE MEMLSSTSP ERTRYSPIPP SHHQLTLPDP SHHGLHSTPD SPAKPEKNGH AKDHPKIAKI FEIQTMPNGK TRTSILKTMRS RKLSQOKEKK ATQMLAIVLG VFICWLPPF ITHILNIHCD CNIPPVLYSA FTWLGYNVNSA VNPIIYTEN IEFKAFLLKI LHC</p>	Homo sapiens
103	1243	Dopamine Receptor D3	NM_000796	<p>taaagaaaaa ggatacattc gaagcagct atgaacacatg cactaaggctc taatagggaa A gctggaaaaa cagcactcaa gtaatttcac cttagaggca aaaaagggtg attcttctt gttcatttca tagtttctga gtcctgagaa aggcataagt tgccttgctt gggatgtctt gctgtcagta aatggctgca ggagccgaag tggtaaaact ctcggtctcc agaaatcaga agaaaattt aggaagcccc ttggcatcac gcacctccct ctgggctatg gcactctga gtcagctgag tagccacctg aactacacct gtggggcaga gaactccaca ggtgccagcc aggccccccc acatgcctac tatgccctct cctactgcgc gctcactctg gccatcgtct tcggcaatgg cctgggtgtg atgggtgtgc tgaaggagcg ggcctgtcag actaccacca actacttagt agtgagcctg gctgtggcag acttgctgtg ggcaccttg gtgatgccct gggtgtata cctggagggt acaggtggag tctggaaatt cagccgcat tctgtgtatg ttttgtcac cctggatgtc atgatgtga cagccagcat cctaatctc tgtgccatca gcatagacag gtacactgca gtggtcatgc ccgttacta ccagcatggc acgggacaga</p>	<p>taaagaaaaa ggatacattc gaagcagct atgaacacatg cactaaggctc taatagggaa A gctggaaaaa cagcactcaa gtaatttcac cttagaggca aaaaagggtg attcttctt gttcatttca tagtttctga gtcctgagaa aggcataagt tgccttgctt gggatgtctt gctgtcagta aatggctgca ggagccgaag tggtaaaact ctcggtctcc agaaatcaga agaaaattt aggaagcccc ttggcatcac gcacctccct ctgggctatg gcactctga gtcagctgag tagccacctg aactacacct gtggggcaga gaactccaca ggtgccagcc aggccccccc acatgcctac tatgccctct cctactgcgc gctcactctg gccatcgtct tcggcaatgg cctgggtgtg atgggtgtgc tgaaggagcg ggcctgtcag actaccacca actacttagt agtgagcctg gctgtggcag acttgctgtg ggcaccttg gtgatgccct gggtgtata cctggagggt acaggtggag tctggaaatt cagccgcat tctgtgtatg ttttgtcac cctggatgtc atgatgtga cagccagcat cctaatctc tgtgccatca gcatagacag gtacactgca gtggtcatgc ccgttacta ccagcatggc acgggacaga</p>	Homo sapiens

Homo
sapiens

P

NP_000787.1

Dopamine
Receptor D3

1243

104

gtctctgtcg gcgcgtggcc ctcatgatca cggccgtctg ggtactggcc ttgtctgtgt
cctgccccct tctgtttggc tttatatcca caggggaccc cactgtctgc tccatctcca
accctgattt tgtcatctac tcttcagtgg tctccttcta cctgccccctt ggagtacttg
tccttgctta tgcagaatc tatgtggtgc tgaacaaaag gagacgaaa agtatctcca
ctgcacagaa cagtcagtgc aacagtgtca ggcctggctt cccccacaa accctctctc
ctgacccggc acatctggag ctgaagcgtt actacagcat ctgccaggac actgccccgg
gtggaccagg ctccaagaa agaggaggag agttgaaaag agaggagaag actcgggaatt
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agaaggcaac ccaaatggtg gccattgtgc ttggggcccc cattgtctgc tggctgcccc
tctcttgac ccatgttctc aataccact gccagacatg ccacgtgtcc ccagagcttt
acagtggcac gacatggctg ggctacgtga atagcgcct caacctgtg atctatacca
ccttcaatat cgagttcccg aaagccttcc tcaagatcct gtcttgctga gggagc
MASLSQLSSH LNYTCGAENS TGASQARPHA YYALSYCALI LAIVFGNGLV CMAVLKERAL
QTTTNYLVVS LAVADLLVAT LVMWVWYLE VTGGVWVNSR ICCDVFVTLT VMMCTASILN
LCAISIDRYT AVMPVHYQH GTGSSCRRV ALMITAVWVL APAVSCPLLF GFNTGDPTV
CSIINPDEFVI YSSVVSFYL P FGTVLVYAR IYVVLKQRRR KRILTRONSQ CNSVRPFPQ
QTLSPDPAHL ELKRYYSICQ DTALGGPGFQ ERGELKREE KTRNSLSPTI APKLSLEVRK
LSNGRLSTSL KLGPLQPRGV PLREKKATQM VAIVLGAFIV CWLPFFLTHV LNTHCQTCHV
SPELYSATW LGYVNSALNP VIYTFNIEF RKAFLKILSC

NM_000797

Dopamine
Receptor D4

1244

105

Homo
sapiens

A

atggggaaac gcagcacccg ggaagcgagc ggtgtgctgg ctggggcgcg gcccggccgcg
ggggcatctg cgggggcac tgggggctg ctggggcagg gcgcggcggc gctggtgggg
ggcgtgctgc tcatcgccg ggtgctcg gcgaactcgc tctgtgctgc gacgtgggc
accgagcgcg cctgcagac gccacacaa tcttcatcg tgagcctggc ggcgcgcgac
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tggctgctga gccccgcct gtgcgacgc ctcattggcca tggacgtcat gctgtgcacc
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cctggcccg ctccccac gccaccccg ccccgctcc cccaggacc ctgcccgcgc
gactgtgcg ccccgcgcc cggccttccc cggggtccct gcggccccga ctgtgcgcgc
gcgcgcgcg gctccccg ggaacctgc ggcgcgcct gtgcgcccc cgcgcgcgcg
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cctggcgcc cggactgtg ccccccgcg ccccgctcc cccaggacc ctgcccgcgc
gactgtgcg ccccgcgcc cggcctcccc cgggacctc cgggctcaa ctgtgctccc
ccgacgcgc tcagagccgc cgcgctcccc cccagactc caccgcagac ccgagggag
cggcgtgcca agatcacgg cgggagcgc aaggccatga ggttctgctc ggtgtggtc
ggggccttcc tctgtgctg gacgcccc tctgtggtg acatcacgca ggcgtgtgt

106	1244	Dopamine Receptor D4	NP_000788.1	<p>cctgctgct ccgtgcccc ggggtgggtc agcgcggtc cctgggtggg ctacgtcaac agcgccctca acccgtcat ctacactgtc ttcaacgcc agttccgcaa cgtcttcgc aaggccctgc gtgctgctg ctgagccggg caccgccgga cgcccccg cctgatggcc aggcctcagg gaccaaggag atggggaggg cgcttttgta cgttaattaa acaaatctct tccc</p> <p>MGNRSTADAD GLLAGRPAA GASAGASAGL AGQGAALVGV LLLIGAVLA GNSLVCVSPA P TERALQTPIN SFIVSLAAD LLLALLVPL FVYSEVOGGA WLLSPRLCDA LMAMDVMLCT ASIFNLCAIS VDRFVAVP LRYNRQGSR ROLLIGATW LLSAAVAAPV LCLNDVRGR DPAVCRLEDR DYVYSSVCS FFLECPMLL LYWATFRGLQ RWEVARRAKL HGRAPRRPSG PGPPSPTPPA PRLPQDPCG DCAPPAPGLP RGPCGPDCA AAPGLPPDPC GPDCAAPPAG LPQDPCGPDG APPAPGLPRG PCGPDCAAPP PGLPQDPCGP DCAPPAPGLP PDPCGNCAP PDAVRAAALP PQTTPQTRRR RRAKITGRER KAMRVLPPVV GAFLLCWTPF FVVHITQALC PACSVPPRLV SAVTWLGYVN SALNPVIYTV FNAEFNRVFR KAIRACC</p>	Homo sapiens
107	1267	Opioid Receptor, delta 1 (OPRD1)	NM_000911	<p>ccgaggagcc tgcgtgctc ctggtcaca gcgctccgg cgaggagagc gggcgaggcg A gggggctggg ccggtgcggg cggcgaggca ggcggacgag gcgcagagac agcgggggcg ccggggcgcg gcacggcg ggctggggcc ggctctgccc ttgcgctcc cctcgctcg gatecccgcg ccaggcagc cgttgaggag gacgcggcg gacgcggca gccatgggaa cgccccctc cgccggcg gcgctgcag cccgctctt cgccaaagcc tcggagcgct accctagcgc ctccccagc gctggcgcca atgcgtcgg gcccaggga cggggagcgc cgtgtccct cgcctggca atcgccatca cgcgcctga ctcggcctg tgcgcctgg ggctgtggg caacgtgctt gtcactgctc gtcactgctc gtcactgctc atgaagacgg ccaccaacat ctacatctc aacctggct tagccgatgc gctggccacc agcacgctgc ctttccagag tgccaaagtac ctgatggaga cgtggccctt cggcgagctg ctctgcaagg ctgtgctctc catcgactac tacaatatgt tcaccagcat cttcacgctc accatgatga gtgtgaccg ctacatgct gtctggcacc ctgtcaaggc cctggacttc cgacgcctg ccaaggccaa gctgatcaac atctgtatct gggctcctgg ctcaggcggtt ggcgtgcccc tcattggtcat ggctgtgacc cgtccccggg acggtgcagt ggtgtgcagt ctcagttcc ccagcccccag ctggtactgg gacacggtga ccaagatctg cgtgttctc ttgccttcg tggtgccccat cctcactac accgtgtgct atggcctcat gctgctgctc ctcgcaagtg tgcgccctgct tcggggctcc aaggagaagg accgcagcct gcggcgcatc acgcgcatgg tgctgggtggt tgtggcgcc ttggtggtgt gttggggcgc catccacatc ttgctcatcg tctggacgct ggtggacatc gaccggcgcg acccgctggt ggtggctgcg ctgcacctgt gcacgcgctt gggctacgccc aatagcagcc tcaacccctg gctctacgtc tctctgacg agaaactcaa gcgctgctc cgccagctct gcgcgaagcc ctgcggcgcc ccagacccca gcagcttcag ccggccccgc gaagccacgg ccgcggagcg tgtcacccgc tgcacccctg ccgatggctc cggcggtggc cgtgcgcctt gaccaggcca tccggcccc agacgccccct ccatagtgtt acccgaggc cacatgagtc cagtggagag gcgcgagcca tgatgtggag tggggccagt agataggtcg gagggctttg ggaccgcag atggggcctc tgtttcgga acgggacggg gccgctagat gggcatgggg tgggccccct gtttggggcg aggcagagga cagatcaatg gcgcagtgc tctggtctgg gtgccccct ccacggctct aggtggggcg ggaaagccag tgactccagg agaggagcgg gacctgtggc tctacaactg agtctttaa</p>	Homo sapiens

108	1267	Opioid Receptor, delta 1 (OPRD1)	NP_000902.1	cagggcatct ccaggaaggc ggggcttcaa ccttgagaca gcttcgggtt ctaacttgga gccggacttt cggagttggg ggtccgggg ccc MEPAPSAGAE LQPPLFANAS DAYSAFPPSA GANASGPPGP GSASSLALAI AITALYSAVC P AVGLLGNVLV MFGIVRYTKM KTAINIYIFN LALADALAYS TLPFQSAKYL METWPFGEILL KAVLSIDYY NMFTSIFTLT MMSVDRYIAV CHPKALDFR TPAKAKLINI CIWVLASGVG VPIMVAVTR PRDGAIVCML QFPSWSYWD TVTKICVFLF AFVVPILIT VCYGLMLLRL RSVRLLSGSK EKDRSLRIT RMVLVVGAF VVCWAPIHIF VIVWTLVDID RRDPLVVAAL HLCIALGYAN SSLNPVLYAF LDENFKRCFR QLCKRKCGRP DPSSFRRPRE ATARERTAC TPSDGPGGGR AA	Homo sapiens
109	1424	Duffy Antigen	NM_002036	gggcctgaac caaacgggtgc catggggaac tgtctgcaca ggggtgagat ggggccaggc A cccagagtcc cttatcccta tgcccctcat ttcccctgct gtttgccct cagtctttat atcttctct tttctctctc atctttctc ccttcccgt ttttctctt ccttcaaaag tcttttctc tctctcttc ctatgctagc cctctagtc cctcttggt cctcccttt gcctttgagt cagttccatc ctggtctctt ggtgccttc cttctgacct tgcactgctc ctccagcccc agctgcccc gcttccccag gactgttctt gctccggctc ttcaggctcc ctgctttgtc ctttccact gtcgcactg catctgactc ctgcagagac ctgtttctcc cacccgacct tctctctgt cctccctcc cactgccc tcaattccca ggagactctt ccggtgtaac tctgatggcc tctctgggt atgtctcca ggcggagctc tcccctcaa ctgagaactc aagtcagctg gacttcgaag atgtatgaa tcttctctat ggttgaatg attccttccc agatggagac tatgatgcca acctggaagc agctgcccc tgcactcct gtaacctgct ggatgactct gcactgacct tcttacct caccagtgc ctgggtatcc tagctagcag cactgtctc tctatgctt tcagacctt cctccgctg cagctctgcc ctggctggcc tgcctggca cagctggctg tgggcagtc cctcttcagc attgtggtgc ccgtcttggc cccagggcta ggtagcactc gcagctctgc cctgtgtagc ctgggctact gtgtctggtg tggctcagcc ttgcccagg ctttgctgtc aggtgacct gctccctgg gccacagact ggtgcaggc caggtcccag gctcacct ggggctcact gtgggaattt ggggagtggc tgccctactg acactgcctg tcacctggc cagtgtgct tctggtggac tctgcacct gatacagc acgagctga aggctttgca ggcacacac actgtagcct gtcttgccat cttgtcttg ttgccattgg gtttgttgg agccaaagggt ctgagaagg cattgggtat ggggccaggc cctggatga atactcgtg ggcctgggtt atttctggt ggcctcatgg ggtggttcta ggaactggatt tctggtgag gtccaaagctg ttgctgtgt caacatgtct gggccagcag gctctggacc tgctgctgaa cctggcagaa gcccggcaa tttggcactg tgtggctacg cccctgctc tcgcccatt ctgccaccag gccaccgca ccctctggc cttctgccc cctcctgaag gatggtctt ccatctggac accttgga gcaaatcccta gttctcttc cactgtcaa cctgaattaa agtctacact gccttgtg NP_002027.1 MASSGYVLQA ELSPSTENS QLFEDVWNS SYGVNDSFPD GDYDANLEAA APCHSNLLD P DSALPFILT SVLGILASST VLEMLFRPLF RWQLCPGWV LAQLAVGSAL FSIVVPVLAP GLGSTRSSAL CSLGYCVWYG SAFEAQLLIG CHASLPGRLV AGQVPGTLTG LTVGIWGVAA LLTLPVTLAS GASGGLCTLI YSTELKALQA THTVACLAI FVLLPLGLFGA KGLKKALGMG PGPWNILWA WFIWPHGV VLGDLFLVRS KLLLLSTCLA QQALDLLLLNL AEALAILHCV ATPLLLALFC HQATRTLPLS LPLPEGWSSH LDTLGSKS	Homo sapiens

111	1451	EBV-Induced Gene 2	NM_004951	ggaattccct gatatacacc tggaccacca ccaatggata tacaatggc aacaatttt A actccgcct ctgcaactcc tcagggaat gactgtgacc tctatgcaca tcacagcacg gccaggatag taatgcctct gcattacagc ctgctcttca tcattgggct cgtgggaaac ttactagcct tggctgtcat tgttcaaac aggaataaaa tcaactctac caccctctat tcaacaaatt tgggtatttc tgatataact tttaaccacc ctttgcctac acgaatagcc tactatgcaa tgggctttga ctggagaatt ggagatgcct tgtgtaggat aactgcgcta gtgttttaca tcaacacata tgcaggtgtg aactttatga cctgcctgag tattgaccgc ttcattgctg tgggtcaccc tctacgctac acaagataa aaaggattga acatgcaaaa ggcgtgtgca tatttgtctg gattctagta ttigtctaga cactccact cctcatcaac cctatgtcaa agcaggaggc tgaaggatt acatgcattg agtatccaaa ctttgaagaa actaaatctc ttccctggat tctgttggg gcattgttca taggatagt actccactt ataatcattc tcattctgta ttctcagatc tctgcgaac tcttcagaac tgccaaacaa aaccactca ctgagaaatc tgggtgtaac aaaaaggctc tcaacacaaat tattcttatt attgttgtgt ttgttctctg ttccacact taccattgtt caattattca acatatgatt aagaagcttc gtttctctaa ttctctgaa tttagccaaa gacattcgtt ccagatttct ctgcacttca cagtatgcct gatgaactc aattgctgca tggaccttt tatctacttc tttgcattga aagggtataa gagaaagggt atgaggatgc tgaacggca agtcagtga tcgatttcta gtgctgtgaa gtcagccct gaagaaaatt cacgtgaaat gacagaaacg cagatgatga tacattccaa gtcttcaaat ggaagtga atggattgta ttttgggtta tagtgacgta aactgtatga caactttgc aggacttccc ttataaagca aaataattgt tcagcttcca attagtattc ttttataatt cttctattgg gcactttccc atctccaact cggaagtaag ccaagagaa caacataaag caacacaaat aaagacaaat aaaaatgcaa ataaatattt tcatttttat ttgtaaacga atacaccaa aggagggcgt cttataaact cccaatgtaa aaagttttgt tttaataaaa aatttcttg ccaacaaatg gctagaagg actgaataga ttatatattg ccagatgta atactgtaac atacttttta aataacatat ttcttaaatc caaatttctc tcaatgttag atttaattcc ctcaataaca ccaatgtttt gtttgtttc gttctgggtc ataaaacttt gtttaaggaa tcttttgaa taaagagcag gatgctgc	Homo sapiens
112	1451	EBV-Induced Gene 2	NP_004942.1	MDIQMANNFT PPSATPQND CDLYAHHSTA RIVMPLHYSL VFIIGLVGNL LALVVIVQNR P KKINSTTLYS TNLVISDILF TTALPTRIAY YAMGFDWRIG DALCRITALV FYINTYAGVN FMTCLSIDRF IAVVHPLRYN KIKRIEHAKG VCIFVWILVF AQTLPLLINP MSKQEAERIT CMEYPNFEET KSLPWILLGA CFICYVLPLI IILICYSQIC CKLFRITAKQN PLTEKSGVNNK KALNTIILII VVFLCFTPY HVALIQHMIK KLRFSNFLEC SQHRSFQISL HFTVCLMNFN CCMDPFIYFF ACKGYKRKVM RMLKRQVSUS ISSAVKSAFE ENSREMTETQ MMHKSNSNG K	Homo sapiens
113	1486	Endothelin B Receptor	NM_000115	gagacattcc ggtgggggac tctggccagc ccgagcaacg tggatcctga gagactccc A aggtagcat ttgcccgggt gggacgcctt gccagagcag tgtgtggcag gccccgtgg aggatcaaca cagtggctga acactgggaa ggaactgtct cttggagtct ggacatctga aacttggctc tgaactcgc cagcgggcaac ggaacgcctt ctggagcagg tagcagcatg cagcgcctc caagtctgtg cggacgcgc ctggttgcgc tgggttctgc ctgggcctg tcgcggatct ggggagagga gagaggcttc ccgcctgaca gggccactcc gcttttgcaa	Homo sapiens

accgcagaga taatgacgcc accactaag accttatggc ccaaggggtc caagccagtg
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114	1486	Endothelin B NP_000106.1 Receptor	acatggtgct tttctttcat ctagagggcaa aactgctttt tgagaccgta agaacctctt agctttgtgc gttcctgcct aattttata tcttctaagc aagtgccctt aggatagctt gggatgagat gtgtgtgaaa gtatgtacaa gagaaaacgg aagagagagg aatgaggtg gggttgagg aaacccatgg ggacagattc ccattcttag cctaaccgttc gtcatgctt cgtcacatca atgcataaagg tcttgatctt gtccagcaa aacacagtcg aatgtctca gagtgaactt cgaaaataat tgggcccagg agcttttaact ttggaaaataa atatgccc atctttactt tgttttctt ttaataaggct ggccacatg cgtctttaa atagtgcca ttgtttctg tcaatatga atgtatggt acagtaaac aaacccaac aatgtggcca gaaagaaaga gcaataataa ttaattcaca caccataggt attctattta taaatcacc acaaacttgt tctttaattt catcccaatc actttttcag aggcctgtta tcatagaagt cattttagac tctcaattt aaattaattt tgaatcacta atattttcac agtttattaa tatattaat ttctatttaa atttagatt attttatta ccatgtactg aattttaca tctgatacc ctttctctt ccatgtcagt atcatgttct ctaattatct tgccaaattt tgaaactaca cacaaaaagc atacttgcat tatttataat aaaattgcat tcagtggctt tttaaaaaaa atgtttgatt caaaacttta acatactgat aagtaagaaa caattataat ttctttacat actcaaaacc aagatagaaa aagtggtctat cgttcaactt caaacatgt ttcttagtat taaggacttt aatatagcaa cagacaaaaa tattgttaac atggatgtta cagctcaaaa gatttataaa agattttaac ctattttct ccttattatc cactgcta gtggatgtat gtcaaacac ctttagtat tgatagctta catatggcca aaggaataca gtttatagca aaacatgggt atgtgtgagc taactttata aagtgtaaat ataacaatgt aaaaaattat atacttgga ggaatttttg gttgcctaaa gtggtctatg ttactgattt tttattatgt aagcaaaacc aataaaaaat taagtttttt taacaactac cttatttttc actgtacaga cactaatca ttaataacta attgattgtt taaaagaaat ataatgtga caagtggaca ttatttatgt taaatataca attatcaagc aagtatgaag ttattcaat aaaaagccac atttctggtc tctggtg	Homo sapiens
115	1488	Endothelin A NM_001957 Receptor	SLARSLAPAE VPKGDRTAGS PPRISPPPC QGPIEKETF KYINTVWSCL VFVLGIIGN TLRLIYKKNK CMRNGPNILI ASLALGDLH IVIDIPINNY KLLAEDWPF G AEMCKLV PFI QKASVGITVL SLCALSIDRY RAVASWSRIK GIGVPKWTAV EIVLIWVSV VLAVPEAIGF DIITMDYKGS YLRICLLHPV QKTAFMQFYK TAKDWWLFSF YFCLPLAITA FFYTLMTCEM LRKKSQMQLA LNDHLKQRR VAKTVFCLVL VFALCWLEPLH LSRLKLTLY QNDPNRCEL LSFLVLVDYI GINMASLNSC INPIALYLV KRFKNCFKSC LCCWCQSFE KQSLKQSC LKFKANDHGY DNFSSNKYS SS gaattcgagg ccgctcttg cgggtcccaga gtggagtggga aggtctggag ctttgggagg A agacggggag gacagactgg aggcgtgttc ctcggaggtt tctttttcg tgcgagccct cgcgcgcgcg tacagtcac cgcctggtc gacgatgtg gagagcggtt ggagagcctt catccatccc acccggtcgt cgcggggggt tgggtctcca gcgacaccc cccgggagaa gcagtgcaca ggaagtctt tgaagccggg gaagctgtgc agccgaagcc gccgcccgc cgagcccggg gacacggcc accctccg cccggcagct gtctgcgac gccgagctc acggtgaaa tgggccaggc gccgcgga ggtgtaaaa gacacaaagt gcaataagag atatttctc aaattgctc	Homo sapiens

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cacctctat tctcttaatt ttgttaaaa tgttaactgg cagtaagtct tttttgatca
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Homo
sapiens

116 1488 Endothelin A NP_001948.1 METLCURASF WLALVGCVIS DNPERYSTNL SNHVDFTTF RGTELSFLVT THQPTNLVLP P
Receptor SNGSMHNYCP QQTKITSAFK YINTVISCTI FIVGMVGNAT LLRIYQNK NC MRNPNALIA
SLALGDLIYV VIDLPINVEK LLAGRWPFDH NDFGVFLCKL PFPLQKSSVG ITVLNICALS
VDYRRAVASW SRVQIGIGIP LVTAEIVSIW ILSFILAIPE AIGFVMVPFE YRGEQHKTCM
LNATSKFMEF YQDVKDWLWF GFYFCMPLVC TAIFTYIMTC EMLNRRNGSL RIALSEHLKQ
RREVAKTVFC LVVIFALCWF PLHLSRLKK TVYNEMDKNR CELLSFLLM DYIGINLATM
NSCINPIALY FVSKKFKNCF QSCLCGCCYQ SKSLMTSVPM NGTSIQWKNH DQNNHNTDRS
SHKDSMN

Homo
sapiens

117 1598 Calcium- NM_000388
Sensing
Receptor
(CASR)
caacaggcac ctggctgcag ccaggagga ccgcagcccc ttctcgcgag gagagtggaa A
ggaggagct gtttccagc accgaggtct tgcggcacag gcaacgcttg acctgagctct
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acctcttg ccgtgctggg catttctctg acagccttg tctgggtgt gttatcaag
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aagagaaca gcgaagaccc attccacag cccgagaggc agaagcagca gcagcgtg
gccctaacc agcaagagca gcagcagcag cccctgaccc tccacagca gcaacgatct

118	1598	Calcium- Sensing Receptor (CASR)	NP_000379.1	MAFYSCCWVL LALTWHTSAY GPDQRAQKKG DIILGGLFPI HFGVAARDQD LKSRPESVEC P IRYNFRGFRW IQAMIFAIEE INSSPALLPN LTLGYRIEFT CNTVSKALEA TLSFVAQNKI DSLNLDFCN CSEHIPSTIA VVGATGSGVS TAVANLLGLF YIPQVSYASS SRLLSNKNQF KSFRLRTIPND EHQATAMADI IEYFRWNWVG TIAADDDYGR PGIEKFREEA EERDIDIDFS ELISQYSDEE EIQHWVEVIQ NSTAKVIVVF SSGPDLEPLI KEIVRRNITG KIWLASEAWA SSSLIAMPQY FHVVGGTIGF ALKAGQIPGF REFLLKKVHPR KSVHNGFAKE FWEETFNCHL QEGAKGPLPV DTFLRGHEES GDRFSNSTA FRPLCTGDEN ISSVETPYID YTHLRISNV YLAVYSIAHA LQDIYTCPLG RGLFTNGSCA DIKKVEAMQV LKHLRHLNFT NNMGEQVTFD ECGDLVGNYS IINWHLSPED GSIVFEKVG YNVYAKKGER LFINEEKILW SGFSREVPPFS NCSRDLAGT RKGIIEGPT CCFECVECPD GEYVIFKFRNT PIVKATNREL SYLLLSLLC KEIEFLSWTE PFGIALTLFA VLGIELTAFV LGVFIKFRNT RVLLVFEAKI PTFHPRKWWG CFSSSLFFIG EPQDWTCLRL QPAFGISFVL CISCILVKTN RVLLVFEAKI PTFHPRKWWG LNLFLLVFL CTFMQIVICV IWLVTAPPSS YRNQELEDEI IFITCHEGSL MALGFLIGYT CLLAICFFF AFKSRKLPEN FNEAKFITFS MLIFFIVNIS FIPAYASTYG KFVSAREVIA ILAAAFGLLA CFFNKIYII LFKPSRNTIE EVRCSTAAHA FKVAARATLR RSNVSRKRSS SLGGSTGSTP SSSISSKSN EDPFPQPERQ KQQQPLALTQ QEQQQQPLTL PQQQRQQQP RCKQKVIKGS GTVTFSLSFD EPQKNAMAHG NSTHONSLEA QKSSDTLTRH QPLLPLQGE TDLDLTVQET GLQGPVGGDQ RPEVEDPEEL SPALVSSSQ SFVISGGST VTENVVNS ggcacagagga acaacattt tgcaaaagttg gcgcaaacat tccgtcctga caggaccatg A gacacaggtt gtagagatag agatggctct ggctgtgcat tcagcagatt ctgtagatag aattaatagg acttgatgg gattgtggtg agagaaaagt aatgaaaga taagtcttag tttggaagtt ttaacaactg aatgttttaa ctcaaataga cacaataat tggagagagt gcaggttttg gaggatgaga caatcaactg tttggttgag ccacgttagg ttgaaatgt ctacgggac ccgtggggag aggttatatc agactggagc accagagaga ggccaaggct gatagtttag atgaaaagag agcatgat tttaaagccct gagactggat aatatcacct atagaaagac tatatagaga taagagaggt gggaacaaag taaaagctgc ggacacactcc taaatttaga gtcaaattta gacagaaaaa tactagcaaa ggggactgaa aagcgttggc caattgagct tcaaatgcaa gtgaaaagtgt gttgtgtgta catttatcat ctcatggcac agggaaaaacg tgatttaagg agaaggaaac gatccaatgg gaagaagaga tccaatggat cctctatcac gaagatatg agataagaac caatatgat ttgcaccac tgatttgca gccttgaggt cataagcatc ctcaggaaaa tgcaccaggt gctgctggca agatggaaac	Homo sapiens
119	1676	Formyl Peptide Receptor- Like Receptor	NM_001462		Homo sapiens

120	1676	Formyl Peptide Receptor- Like Receptor	NP_001453.1	caactttctcc atcctctctga atgaatatga agaagtgtcc tatgagtctg ctggctacac tgtttctggg atcctcccat tgggtgtgct tgggtgcacc ttgtctctcg gggctcctggg caatgggctt gtgactggg tggctgatt cggatgaca cgcacagtca ccaccatctg ttacctgaac ctggccctgg ctgacttttc ttccagggcc acattaccat tccctattgt ctccatggcc atgggagaaa aatggccttt tggctgttc ctgtgtaagt taattcacat cgtggtggac atcaacctct ttggaagtgt ctcttgatt ggtttcattg cactggaccg ctgcatttgt gtcctgcac cagctgggc cagaaccac cgcactgtga gtctggccat gaaggtgac gtcggacctt ggattcttg tctagtctt acctggccag ttctctctt ttgactaca gtaactattc caaatgggga cacatactgt actttcaact ttgcactctg gggtggcacc cctgaggaga ggctgaagt gccattacc atgctgacag ccagaggat tatccggttt gtcattggct ttagctggc gatgtccatt gttgccatct gctatggct cattgcagcc aagatccaca aaagggcac gattaaatcc agcgtccct tacgggtcct cactgcttg gtgcttctt tctcatctg ttggtttccc ttcaactgg ttgccctct ggcacctgc tggctcaag agatgttgt ctatggcag tacaaaaatca ttgacatct ggttaaccca acgagctccc tggcctctt caacagctgc ctcaacccca tgccttacgt ctttgtggc caagacttcc gagagact gatccactc ctgcccacca gtctggagag ggccctgtct gagactcag ccccaactaa tgacacggct gccaatctctg ctccactcc tgacagact gattacagg caatgtgagg atgggtcag ggatattttg agttctgttc atcctaccct aatgccagt ccagcttcat ctaccctga gtcattatga ggcattcaag gatgcacag tcaagtattt attcaggaaa aatgctttt gtccctgat ttgggggttaa gaaatagaca gtcaggctac taaaatatta ggttttttt ttgtttttt acttctgct ataccctggg gtaagtggag ttgggaaata caagaagaga aagaccagt gggatttgt agacttagat gagatagcg ataaaggg gaagacttta aagtataaag taaaatgtt gctgtagggt tttatagct attaaaaaa atcagattat ggaagttttc ttctatttt agtttgctaa gattttctg tttcttttc ttacatcatg agtgacctt gcattttatc aaatgcattt tctacatgta ttaagatggt catattattc ttctctttt atgtaaatca ttataataaa tttcattaa gttctgaatg ttaaaactact cttgaattcc tggaataaac cacacttagt cctgatgtac tttaaatatt tatatctac aggagtgtgt tagaattct gtgtttatgt ttatatactg ttatttcaat ttctctacta tcttgctaa gttttcctag aaaaaagga acaaagagaa acttgtaatg gtctctgaaa aggaattgag aagtaattcc tctgattctg tttctggtg ttatatctt attaaatt cagaaaaatt c METNFSPLN EYEVSYESA GYTVLRILPL VVLGVTFLG VLGNGLVIWV AGFRMTRFVT P TICYNLALA DFSFATLPE LIVSMANGKEK WPFGLCKL IHIVVDINLF GSVFLIGFIA LDRICVLPV WVAQNHRVTS LAMKVIVGPW ILALVLTLPV FLFLTFTVTP NGDTYCTFNF ASWGGTPEER LKVAITMLTA RGIIRFVIGF SLPMSIVAIC YGLIAAKIHK KGMIKSRPL RVLTAVVASF FICWFPQLV ALLGTWMLKE MLFYGYKII DIIVNPTSSL AFFNSCLNPM LYFVVGQDFR ERLIHSPLTS LERALSEDSA PTNDTAANSA SPPAETELQA M cgtgagatc tgtggaggtt ttctctgca aatgcagaaa gaaatcaggt ggtgagatgc A ataattatgg cctgtcctt gttctcttg cctggcattg atgagttggg ctcaggtgtg catcatcgga tctgtcact ctcctaacagg gttttctct gccagagag caaggtgaca gagattcctt ctgacctccc gaggaatgcc attgaactga ggtttgtcct caccaagctt	Homo sapiens
121	1681	Follicle Stimulating Hormone Receptor	NM_000145		Homo sapiens

122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p>cgagtcaccc aaaaaggtgc attttcagga tttggggacc tggagaaaa agagatctct cagaatgatg tcttgaggt gatagggca gatgtgttct ccaaccttcc caaatatcat gaaattagaa ttgaaaaggc caacaacctg cctacatca ccoctgaggc ttccagaac cttcccaacc ttcaatatct gtaatatctc aacacagta ttaagcacct tccagatgtt cacaagattc attctctcca aaaggtttta cttgacattc aagataacat aaacatccac acaattgaaa gaaattcttt cgtggggctg agctttgaaa gtgtgatctc atggctgaat aagaatggga ttcaagaaat acacaactgt gcattcaatg gaaccaact agatgcagt aatctaagcg ataataataa tttagaagaa ttgcctaag atgttttcca cggagcctct ggaccagtca ttctagatat ttcaagaaca aggatccatt cctgcctag ctatggctta gaaaatctta agaagctgag ggccaggtcg acttacaact taaaaaagct gcctactctg gaaaagcttg tgcctctcat ggaagccagc ctcacctatc ccagccattg ctgtgccttt gaaaactgga gacggcaaat ccttgagctt caccacaatt cgaacaaatc tattttaagg caagaagtgg attatatgac tcaggctagg ggtcagagat cctctctggc agaaagcaat gagtcagctc acagcagagg atttgacatg acgtacactg agtttgacta tgacttatgc aatgaagtgg ttgacgtgac ctgtccctct aagccagatg cattcaaccc atgtgaagat atcatggggt acaacatcct cagagtcctg atatggttta tcagcatcct gccatcact gggaacatca tagtgctagt gatcctaact accagccaat ataaactcac agtccccagg ttccttatgt gcaacctggc ctttgctgat cctgctattg gaatctacct gctgctcatt gcacagttg atatccatc caagagccaa tatcacaact atgccattga ctggcaaac gggacaggt gtgatgctg tggcttttct actgtctttg ccagttagct gtcagtctac actctgacag ctatcacctt ggaagatgg cataccatca cgcattgccat gcagctggac tgcaaggtgc agctccgcca tctgcccagt gtcattggtga tgggctggat ttgtctttt gcagctgccc tcttcccat ctttggcatc agcagctaca tgaaggtgag catctgcctg cccatggata ttgacagccc ttgttcacag ctgtatgtca tgtccctcct tgtctcaat gtcctggcct ttgtggtcat ctgtggctgc tatatccaca tctacctcac agtgcggaac cccaacatcg tctcctcctc tagtgacacc aggatcgcca agcgcattggc catgctcatc ttcactgact tctctgcat ggcaacctt tcttctttg ccatctctgc cctcctcaag gtgccccca tcactgtgtc caaagcaaa atctgtctgg ttctgtttca cccatcaac tctgtgcca acccttctc ctatgccatc ttaccacaaa actttcgag agatttcttc attctgctga gcaagtgtg ctgctatgaa atgcaagccc aaatttatag gacagaaact tcatccactg tccacaacac ccatccaagg aatggccact gctcttcagc tccagagtc accagtgggt ccacttacat actgtccctc ctaagtcatt tagcccaaaa ctaaaaaca atgtgaaaat gtatctgagt attgaatgat aattcagtc ttgcctttga aggtatgtc acaaggagct gacagtgtt ctacacattt catctaatc aatattcctg gcatacctt aaggtaaatt ggtcaggaac tattaattcc atgtgatac ttaggaagct gaattattag taacaacaat ataataaaa gaatgcaata ctgtaaaaa gcggccgcga att</p>	Homo sapiens
				<p>MALLVSLA FLSLGSGCH RICHCSRNF LCQESKVEI PSDLPNAIE LRFVITKLRV P IQGAFSGFG DLEKIEISON DVLEVEADV FSNLPKLHEI RIEKANNLLY ITPEAFQNLN NLQYLLISNT GIKHLPDVHK IHSLOKVLDD IQDNINIHTI ERNSFVGLSF ESIVLWLNK GIQEIHNCAF NGTQIDAVNL SDNNNLEELP NDVFHGASGP VILDISRTI HSLPSYGLN LKKLRARSTY NLKKLPTLEK LVALMEASLT YPSHCCAFAN WRRQISELHP ICNKSILRQE</p>	

123	1726	G Protein- Coupled Receptor RDC1	U67784	<p> VDMTQARGQ RSSLAEDNES SYSRGDMTY TEFDYDLCNE VDVTCSPKP DAFNPCEMIM GYNILRVLIW FISILAITGN IIVLVILTS QYKLTVPNFL MCNLAFAADLC IGIYLLIAS VDIHTKSQYH NYAIDWQTGA GDAAGFFTV FASELSVYTL TAITLERWHT ITHAMQLDCK VQLRHAASVM VMGWIFAFAA ALFPIFGISS YMKVSICLPM VMSLLVLNVL AFVVICGCYI HIYLTVRNPN IVSSSDTRI AKRMAMLIPT DFLCMAPISF FAISASLKVP LITVSKAKIL LVLFHPINSC ANPFLYAI FT KNFRDRDFIL LSKGCIYEMQ AQIYRTETSS TVHNTHPRNG HCSSAPRVTS GSTYILVPLS HLAQN gccaaactccg tgggtggtctg ggtgaatatac caggccaaga ccacaggcta tgacacgcac A tgctacatct tgaacctggc cattgccgac ctgtgggttg tccacacat ccagtcctgg gtggtcagtc tctgtcagca caaccagtgg cccatggggc agctcacgtg caaagtcaca cacctcatct tctccatcaa cctcttcagc agcattttct tctcacgtg catgagcgtg gaccgtacc tctccatcac ctacttcacc aacaccccca gcagcaggaa gaagatggta cgccgtgctg tctgcacctt ggtgtggtctg ctggccttct cctgtctctt gctgacacc tactacctga agaccgtcac gtctgcgtcc aacaatgaga cctactgccg gtccttctac ccgagcacca gcatcaagga gtggtgctgac ggcattggagc tggctcctgt tgccttgggc tttgccgttc ccttctccat tctcgtctg tctacttcc tctggcccag agccatctcg gcgtccagt accaggagaa gcacagcagc cggaagata tcttctccta cgtggtggtc ttcctgtctt gctggtgtgc ctaccacgtg gcggtgtgctg tggacatctt ctccatctcg cactacatcc ctttcacctg ccggtgtgag cagccctctt tcacggccct gcatgtcaca cagtgccgtg cgtggtgca ctgctgcgtc aacctgtcc tctacagctt catcaatcgc aactacaggt acgagctgat gaaggccttc atctcagagt actctgcctt gcagcagagc accaagctca tcatgctcct cagagctcga gagagcgtt cttgtttttg aacagggtga accaaatgat ctgcccctga gaggctctgg gacgggttta cgtgtttttg aacagggtga tgggcccctat ggttttctag agcaaaagcaa agtagcttcg ggtcttgatg cttgagtaga tggaagaggg gagcacgtgc cccctgcctc cattytctct tctcttgat gacgcagctg tcatttggct gtgcgtgctg acagttttgc aacaggcaga gctgtgtgcg acagcagtcg tgtgcgtcag agccagctga ggacaggctt gccctggactt ctgtaagata ggattttctg tgttctctga atttttata tgggtgatttg tatttaaat ttaagacttt attttctcac tattggtgta cctataaat gtatttgaaa gttataatata ttttaaatat tgtttgggag gcatagtgct gacataatatt cagagtgttg tagttttaag gttagcgtga ctttcagttt tgactaaagga tgacactaat tgttagctgt tttgaaata tatatatata aatatataaa tatatgccag tcttggtcga aatgttttat ttaccatagt tttatatctg tgggtgtgtt tgtaccggca cgggatatgg aacgaaaact gctttgtaat gcagtttgtg acattaaatg tattgtaaaag ttacatttta aaataaaaca aaaactgttc tggactgcaa atctgcacac acaaagaca gttgcatttc agagagttct ctcaatttgt aagttatttt tttttaataa agatttttgt ttctataaaa aaaaaaaa aaaaaa MDLHLFDYAE PGNFSDISWP CNSSDCIVVD TVMCPNPNK SVLLYTLSTF YIFIFVIGMI P ANSVVVWVNI QAKTGYDTH CYILNLAIAD LWWVLTPVW VVSLVQHNQW PMGELTCKVT HLIFSINLFS GIFFLTGMSV DRYLSITYFT NTPSSRKVMV RAVVCILVWL LAFCVSLPDT YYLKTVTSS NNETYCRSFY PEHSIKEWLI GMELVSIVLG FAVPFSIIAV FYELLARAI ASSDQEKHSS RKIIFSYVW FIVCWLPYHV AVLLDIFSIL HYIPFTCRLE HALFTALHVT </p>	Homo sapiens
124	1726	G Protein- Coupled Receptor RDC1	AAA62370.1	<p> MDLHLFDYAE PGNFSDISWP CNSSDCIVVD TVMCPNPNK SVLLYTLSTF YIFIFVIGMI P ANSVVVWVNI QAKTGYDTH CYILNLAIAD LWWVLTPVW VVSLVQHNQW PMGELTCKVT HLIFSINLFS GIFFLTGMSV DRYLSITYFT NTPSSRKVMV RAVVCILVWL LAFCVSLPDT YYLKTVTSS NNETYCRSFY PEHSIKEWLI GMELVSIVLG FAVPFSIIAV FYELLARAI ASSDQEKHSS RKIIFSYVW FIVCWLPYHV AVLLDIFSIL HYIPFTCRLE HALFTALHVT </p>	Homo sapiens

125 1762 Galanin
Receptor
GalR1 NM_001480

QCLSLVHCCV NPVLYSFNR NYRYELMKAF IFKYSAKTGL TKLIDASRVS ETEYSALEQN
AK

atcccgctag aatccgtcca gtctctgctc gcgcaccgtg acttctaagg ggcgggatt A
tcagccgagc tgttttcgcc tctcagttgc agcagagaag cccctggcac ccgactctat
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aaccaattgt actcatgtgt gataaaagt agagtatcct tatggttgag ttccatata
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tttaattctt taattttaag agaagtaata ttgtgaacta tgtattttta aatatgatca
tggacacaca atgatgaatt ttttgccat ttacatagac atatctatta agtggaaaga

126	1762	Galanin Receptor GalR1	NP_001471.1	aggttttctg aagtctgttt gcacaggttg catttgcttc caattgttag tagcgacacag agcttttgaa gcctgtcatt atgagataca gtccgttttac ctcaggagtc aattcagtg tgtactgggtg acctgggatg cagtagtagg cactgttgat tcaaatattat cctgtgaac tggttttata gaggtaacaa acagagtgca gagaccattg tcttaacagt ggaagatgca ataaagtttt tgagaataaa acctgatttt gaaattttac attagtaact gacaaaagtt ttcattttgc ctgtgaatgga acctactaaa agagagatg aaaaaaaatc agcaggttg atgtagataa taatttctat gggaccataa actagacaga attcagtaag tcacatgaag taatggtcat gcctgtacat aaagcataat tcatgtttga tttagatgac attcaaaaa aatcatggga ctgaatatac ctgggggtac ctatcttgta caaatgcagt cttttcatt aaatttgtaa tgatgtttaa tgaacatttc caccataatc tatttcctct aaaaatgta atttggggtt aaaaccatca ccatttgaat ttcaaatgta gttttcatga caattttata ttgatgtgtg ttacaatga gaaaatggca tgaaaatatt aaattgtctt gtatcg MELAVGNLSE GNASWPEPPA PEPGLFEGIG VENFVTLVVF GLIFALGVLG NSLVITVLAR P SKPGKPRSTT NLFILNLSIA DLAYLLFCIP FOATVYALPT VWLGAFLCKF IHYFFTVSML VSIFTLAAMS VDRYVAIVHS RRSLSLRVSR NALLGVGCIW ALSIAMASPV AYHQGLFHPR ASNQTFCEWEQ WPDPRHKKAY VVCTFVFGYL LPLLILICFCY AKVLNHLHKK LKNMSKKSEA SKKTAQTVL VVVVFGISW LPHHIIHLWA EFGVFPLTPA SFLFRITAHK LAYNSNSVNP IIYAFLENF RKAYKQVFKC HIRKDSHLSL TDENKSRIDT PPSTNCTHV ggcagcggtg gcaggggctg cagagcaag tgaccaggag caggactggg gacaggcctg A atcgccctcg cagcaaccag acctctgcc gccctcacga tgactacctc tccgatcctg cagctgctgc tgcgctctc actgtgcggg ctgctgctcc agaggcgga gacaggctct aaggggcaga cggcggggga gctgtaccag cgtggggaac ggtaccgcag ggagtgcag gagacctgg cagccgcgga accgcttca ggcctgcctc gtaacgggtc cctcgatag tacgtctgct gggactatgc tgcacccaat gccactgcc gtgcgtcctg cccctggtac ctgcccctgg accaccatgt ggtgcaggt ttcgtctctc gccagtgtg cagtgtggc caatggggac ttggagaga ccatacacia tgtgagaacc cagagaagaa tgaggccttt ctggaccaaa ggtcatctt ggagcggtg caggtcatgt acactgtcg ctactccctg tctctcgcca cactgtgct agccctgctc atcttgagt tgttcaggcg gctacattgc actagaaact atatccacat caactgttc acgtcttca tgcgtcgagc tgcggccatt ctagccgag accgtctgct acctgacct ggcctctacc ttggggacca ggccttgcg ctgtggaacc agccctcgc tgcctgcgc acgcccaga tctgaccca gtaactgctg ggtgccaaact acacgtggct gctggtggag ggcgtctacc tgcacagtct cctggtgctc gtggaggct ccgaggagg ccacttccgc tactacctgc tccctggctg gggggcccc gcgttttgc tcattccctg ggtgatcgtc aggtacctgt acgagaacac gagtgtgtg gagcgcaacg aagtcaaggc catttggtg attatacga ccccatcct catgaccatc ttgattaatt tctcatctt tatccgcat ctggcattc tctgtccaa gctgaggaca cggcaaatgc gctgcggga ttaccggctg aggtggctc gctccacgt gacgtggtg ccctgctgg gtgtccacga ggtggtgtt gctccgtga cagaggaaca ggcggggg gcctgcgtc tgcgaagct cggctttgag atcttctca gctccttcca ggccttctg gtcagcgtcc tctactgctt catcaacaag gaggtgcagt cggagatccg ccgtggctgg caccactgcc gctgcgccg cagcctgggc gaggagcaac gccagctccc ggagcgcc	Homo sapiens
127	1808	Gastric Inhibitory Polypeptide Receptor	NM_000164	ggcagcggtg gcaggggctg cagagcaag tgaccaggag caggactggg gacaggcctg A atcgccctcg cagcaaccag acctctgcc gccctcacga tgactacctc tccgatcctg cagctgctgc tgcgctctc actgtgcggg ctgctgctcc agaggcgga gacaggctct aaggggcaga cggcggggga gctgtaccag cgtggggaac ggtaccgcag ggagtgcag gagacctgg cagccgcgga accgcttca ggcctgcctc gtaacgggtc cctcgatag tacgtctgct gggactatgc tgcacccaat gccactgcc gtgcgtcctg cccctggtac ctgcccctgg accaccatgt ggtgcaggt ttcgtctctc gccagtgtg cagtgtggc caatggggac ttggagaga ccatacacia tgtgagaacc cagagaagaa tgaggccttt ctggaccaaa ggtcatctt ggagcggtg caggtcatgt acactgtcg ctactccctg tctctcgcca cactgtgct agccctgctc atcttgagt tgttcaggcg gctacattgc actagaaact atatccacat caactgttc acgtcttca tgcgtcgagc tgcggccatt ctagccgag accgtctgct acctgacct ggcctctacc ttggggacca ggccttgcg ctgtggaacc agccctcgc tgcctgcgc acgcccaga tctgaccca gtaactgctg ggtgccaaact acacgtggct gctggtggag ggcgtctacc tgcacagtct cctggtgctc gtggaggct ccgaggagg ccacttccgc tactacctgc tccctggctg gggggcccc gcgttttgc tcattccctg ggtgatcgtc aggtacctgt acgagaacac gagtgtgtg gagcgcaacg aagtcaaggc catttggtg attatacga ccccatcct catgaccatc ttgattaatt tctcatctt tatccgcat ctggcattc tctgtccaa gctgaggaca cggcaaatgc gctgcggga ttaccggctg aggtggctc gctccacgt gacgtggtg ccctgctgg gtgtccacga ggtggtgtt gctccgtga cagaggaaca ggcggggg gcctgcgtc tgcgaagct cggctttgag atcttctca gctccttcca ggccttctg gtcagcgtcc tctactgctt catcaacaag gaggtgcagt cggagatccg ccgtggctgg caccactgcc gctgcgccg cagcctgggc gaggagcaac gccagctccc ggagcgcc	Homo sapiens

128	1808	Gastric Inhibitory Polypeptide Receptor	NP_000155.1	<p> tccggggccc tgcctccgg ctcggggccc ggcgaggtcc ccaccagccc cggcttgctc tcggggaccc tcccaggccc tgggaatgag gccagccggg agttgaaaag ttactgtctag ggggcgggat ccccggtct gtccagttag catggattta ttgagtgcca actcgtgccc agggccagta cggaggaatg tgggaaatg gtgaaggaaa cagaaaaag gtccctgccc ttctggagat gacaaactgag tgggaaaaac agaccgtgaa cacaaaaat caagtccac acacgctatg gaatggttat gaagggaagc gagaaagggg cctagggtgg cttgggaggc gtctccaaag aggtgacact taagccatcc ccgaaagagg tgaagagat cactttgggg agagctggag aacagattc taggcggaag cgatagcata ggcaaggccc cttgggcagg aaggcgctca gccttggtg gagtagaatt aagtcagagc caacagggtg gggagagaca gagaagtggg caggggcacc caagttggga ttctattca ggtgcattgg agattcttag gagtgctct tgggggtaatt atttatttt ttaaaaaatg aggat </p>	Homo sapiens
129	1813	Gastrin- Releasing Peptide Receptor	NM_005314	<p> cagagattcta aatatacagga aagacgctgt gggaaaaatag caggccaaaa gtcttagta A aactgcagcc agggagactc agactagaat ggaggtagaa agaactgatg cagagtgggt ttaaattcaa gcctttttgt ggttaagtgt tgtgtgtgtt aacttattga atttagagtt gtattgcact ggtcatgtga aagccagagc agaccaggtg tcaaaaatagt gacagagagt tttgaatacc atagttagta tatatgtact cagagtattt ttattaaaga aggcaaaagag ccgggcatag atcttatctt catcttcaact cggttgcaaa atcaaatagt aagaaaatagc atctaaggga acttttaggt gggaaaaaaa atctagagat ggtctctaaat gactgtttcc ttctgaactt ggaggtggac cattcatgc actgcaacat ctccagtcac agtgcggatc tcccctgtaa cgatgactgg tcccaccggg ggatcctcta tgtcatccct gcagtttatg gggttatcat tctgataggc ctcatgggca acatcaactt gatcaagatc ttctgtacag tcaagtccat gcgaaaacgtt ccaaacctgt tcatttccag tctggctttg ggagacctgc tcctcctaact aacgtgtgct ccagtggtat ccagcaggta cctggctgac agatggctat ttggcaggat tggctgcaaa ctgatccctt ttatacagtt tacctctgtt ggggtgtctg tcttcacact cagggcgctc tcggcagaca gatacaagc catgtcccg ccaatggata tccaggcctc ccatgcccct atgaagatct gcctcaagc cgcctttatc tggatcatct ccatgctgct ggccattcca gaggcctgt tttctgacct ccatcccttc catgaggaaa gcaccaacca gaccttcat agctgtgccc catacccaca ctctaatag cttcacccca aaatccattc tatggcttc tttctggtct tccaggtcat cccactgtcg atcatctctg tttactacta cttcattgct aaaaatctga tccaggtgc ttacaatctt cccgtggaaag ggaatatata tgtcaagaag cagattgaat cccgggaagc acttgccaag acagtgtggtg tgttttggg cctgttcgccc ttctgtggtg tccccaatca tgtcatctac ctgtaccgct cctaccacta ctctgaggtg gacacctcca tgtctcactt tgtcaccagc atctgtgccc </p>	Homo sapiens

130	1813	Gastrin-Releasing Peptide Receptor	NP_005305.1	Homosapiens
131	1814	Cholecystokin nin B Receptor	NM_000731	Homo sapiens

gctctctggc cttcaccaac tctgcgtga accctttgc cctctacctg ctgagcaaga
 gtttcaggaa acagttcaac actcagctgc tctgttgcca gcctggcctg atcatcgggt
 ctcacagcac tgaagagagt acaacctgca tgacctccct caagagtacc aacctctcgg
 tggccacctt tagcctcatc aatggaaca tctgtacga gcgtatgtc tagattgacc
 cttgattttg cccctgagg gacgggtttg ctttatgctt agacaggaac ccttgcatcc
 attgtttgtg cctgtgccctc caaagagcct tcagaatgct cctgagtgtt gtaggtgggg
 gtggggaggc ccaaatgatg gatcacatt atatttgaa agaagc
 MALNDGFLN LEVDHFMHCN ISSHADLPV NDDWSHPGIL YVTPAVYGI ILIGLIGNIT P
 LIKIFCTVKS MRNVNLFIS SLALGDLILL ITCAPVDASR YLADRWLFGR IGCKLIPFIQ
 LTVSGVSVFT LTALSADRYK AIVRPMDIQA SHALMKICKL AAFIWIISML LAIPEAVFSD
 LHPFHEESTN QTFISCAPYP HSNEHPKIH SMASFLVEYV IPLSIISVY YFIAKNLIQS
 AYNLPVEGNI HVKKQIESRK RLAKTVLVFV GLFAFCWLPN HVYLYRSYH YSEVDTSM LH
 FVTSICARLL AFTNSCVNPF ALYLLSKSFR KQFNTQLLCC QPGLIIRSHS TGRSTTCMTS
 LKSTNPSVAT FSLINGNICH ERYV
 atggagctgc tcaagctgaa cggagcgtg cagggaaacc gaccgggccc gggggcttcc A
 ctgtgcgcc cggggggccc tctctcaac agcagcagtg tgggcaacct cagctggagag
 cccctcgca ttcgcgagc cgggacaga gaattggagc tggccattag aatcactctt
 taagcagtga tcttctgat gagcgttga gaaaatagc tcatcatcgt ggtcctggga
 ctgagccgcc gcctgaggac tgtcaccaat gccttctcc tctcactggc agtcagcgac
 ctctgctgg cgtggtctg catgcccctt accctctgc tgggggtgtc gggcacattc
 atctttggca cgtcatctg caaggcggtt tctactcca tgggggtgtc tgtgagtgtg
 tccacgctaa gcctcgtggc catgcactg gagcgtgaca gcgccatctg ccgaccactg
 caggcacgag tgtggcagac gcgtccccc gcgctcgcg tgattgtagc cactgggctg
 ctgtccggac tactcatggt gccctacccc gtgtacactg tctgtcaacc agtggggcct
 cgtgtcctgc agtgcgtgca tgcgtggccc agtgcgggg tccgccagac ctggtccgta
 ctgctgcttc tgcctttgtt cttcatcccg ggtgtggtta tggccgtggc ctacgggctt
 atctctcgcg agctctactt agggcttcgc tttgacggcg acagtgaacg cgacagccaa
 agcagggtcc gaaaccaagg cgggctgcca ggggctgttc accagaaacg gcgttgccgg
 cctgagactg gcgcggttgg cgaagacagc gatggctgct acgtgcaact tccacgttcc
 cggcctgccc tggagctgac ggcgtgacg gctccagggc cgggatcccg ctcccgccc
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 ctttttttc tgtgttgggt gccagtatat agtgccaaca cgtggcgcg cttgatggc
 ccgggtgac accgagcact ctgggtgtct cctatctctt tcatcactt gctgagctac
 gctcgggct gtgtcaacc cctgtgtctac tgcctcatgc accgtgctt tcccgaggcc
 tgccctgaaa cttgcgctcg ctgctgccc cggcctccac gagctcgccc cagggtctt
 ccgatgagg accctcccac tccctccatt gcttgcgtgt ccaggcttag ctacaccac
 atcagcacac tgggcccctg ctgaggagta gaggggctgt gggggttgag gcaggggcaaa
 tgacatgcac tgaccttcc agacatagaa aacacaaacc acaactgaca caggaacaa
 acacccaaag catggactaa ccccaacgac aggaagaggt agcttacctg acacaagag
 aataagaatg gagcagtaca tgggaagga ggcattgcctc tgatatgga ctgagcctgg
 cccatagaaa catgacactg accttgaga gacacagcgt ccctagcagt gaactatttc

132	1814	Cholecystoki nin B Receptor	NP_000722.1	<p> taccacagtgg gaactctgac aagggtgac ctgcctctca cacacataga ttaatggcac tgattgttt agagactatg gagcctggca caggactgac tctgggatgc tctagtttg acctcacagt gaccttccc aatcagcact gaaaatacca tcaggccataa tctcatcct ctgaccaaca ggtgtttctg cactgaaaag gtcttctatc cctttccagt taaggaccgt ggcctgcc tctcttctc tcccaaaactg tccaagaaat aataaatgtg ttggcttctc cctgaaaaaa aaaaaaaa aaaaaaaa aggaattcc MELLKLNRSV QGTGPGPGAS LCRPGAPLIN SSSVGNLSCE PPRIRGAGTR ELELAIRITL P YAVIFLMSVG GNMLIIIVLG LSRRLRTVTN AFLLSLAVSD LLLAVACMPF TLLPNLMGTF IFGTVICAV SYLMGVSVSV STLSLVAIAL ERYSAICRPL QARVWQTRSH AARVIVATWL LSGLLMVPYP VYTVVQPVGP RVLCQVHRWP SARVRQTWSV LLLLLFFIP GVVMAVAYGL ISRELYLGLR FDGSDSDSQ SRVRNQGGLP GAVHQNGRCR PETGAVGDS DGCYVQLPRS RPALELTALT APGPGSGSRP TQAKLLAKKR VVRMLLVIVV LFFLCWLPVY SANTWRAFDG PGAHRALSQA PISFIHLISY ASACVNPLVY CFMHRFRQA CLETCARCCP RPPRAPPRAL PDEDPPTPSI ASLSRLSYTT ISTLGP </p>	Homo sapiens
133	1834	Glucagon Receptor	NM_000160	<p> ggatctggca gcgcgcgcaa gacgagcggg caccggcgcc cgaccggagc gcgccagag A gacggcgggg agccaagcgg acccccgagc agcgccgagc gggccctgag gctcaagggg gcagcttcag gggaggacac cccactggcc aggacgccc aggtcttctg gctctgccac tcagctgcc tcggaggagc gtacacacac accaggactg cattgcccc gttgacgccc cctgccagat gtgggaggca gctagctgcc cagaggcagc cccccctgcc agccacagcg acctctgctg ctgttgctgc tctgctggc cagtgcccca caggtccctc ccgtcagggt gatggacttc ctgtttgaga agtggaaagt ctacggtagc cagtgccacc acaacctgag cctgctgcc cctccacgg agctggtgtg caacagaacc ttcgacaagt attcctgctg gccggacacc cccgccaata ccaaggccaa catctcctgc ccttggtacc tgcctggca ccacaaagtg caacaccgt tctgtgttcaa gagatgcggg cccgacggtc agtgggtgcg tggaaccccg gggcagcctt ggcgtgatgc ctcccagtc cagatggatg gcgagagat tgagggtccag aaggaggtgg ccaagatgta cagcagcttc caggtgatgt acacagtggg ctacagcctg tccctgggg cctgctctc cgccttgcc gaatctgtt gcgtccttgc tgcgaaagc gctgactgc acccgcaatg ccatccacgc gaatctgtt gcgtccttgc tgcgaaagc cagctccgtg ctggtcattg atgggctgct caggacccgc tacagccaga aaattggcga cgacctcagt gtcagcacct ggcctcagtga tggagcgggtg gctggctgcc gttggccgc ggtgttcattg caatatggca tctgtggccaa ctactgctgg ctgctgggtg agggcctgta cctgcaaac ctgctgggccc tggccacct ccccgagagg agcttcttca gctctacct gggcatcgcc tggggtgccc ccatgctgtt cgtcgtcccc tgggcagtg tcaagtgtct gttcgagaac gtccagtgt ggaaccagcaa tgacaacatg ggcttctgtt ggatcctgcg gttccccgtc ttctggcca tcttgatcaa ctcttcac ttctccgca tegttagct gctgttgccc agctgcggg cagggcagat gcaccacaa gactacaagt tccggctggc caagtccacg ctgacctca tccctctgct ggcgttccac gaagtgtct ttgcttctg gacggacgag cagccccag gcaacctgct cctcgccaa acccttctc cagctcttc cagggcctg tgggtgctgt cctctactgc ttctcaaca aggaggtgca gtcggagctg cggcgcggtt ggcacggctg gcgctgggc aaagtgtat gggaggagcg gaacaccagc accacaggg cctcatcttc gccgggccac ggccttccca gcaaggagct </p>	Homo sapiens

134	1834	Glucagon Receptor	NP_000151.1	<p>gagatttggg aggggtggtg gcagccagga tcatctgctg gagacccct tggctggtg</p> <p>cctccctaga ttggtgaga gcccctctg aacctctg gacccccagc tagggctgga</p> <p>ctctggcacc cagagcgctc gctggacaac ccagaaactg acgcccagct gaggtgggg</p> <p>gcggggagc caacagcgc cccacctac cccccccc cagtgtgct gctgagaga</p> <p>ttgggacctc tctccctgc cctgcttgc cctggctga gagtgagca gagagtcga</p> <p>ggggggagt ggggctgtg ccgtgaactg cgtgccagt tccccacgta tgcggcacg</p> <p>tcccatgtc atgaaatgt cctccaaca taaagagctc aagtggtcac cgtg</p>	Homo sapiens
				<p>MPPCQQRPL LLLLLLLAC PQVPSAQVMD FLFEKWLKYG DQCHNLSLL PPTELVCNR P</p> <p>TEDKYSWPD TPANTANIS CPWLPWHHK VQHRVFVRC GPDGQWVRG RGQWRDASQ</p> <p>QMDGEEIEV QKEVAKMYSS FQVMYTVGYS LSLGALLAL AILGLSKLH CTRNAIHANL</p> <p>FASFVKASS VLVIDGLRT RYQKIGDDL SVSTWLSDGA VAGCRVAVF MQYGIVANYC</p> <p>WLLVEGLYIH NLLGLATLPE RSFSLYLGI GWGAPMLFV FWAVVKCLFE NVQCWTSNDN</p> <p>MGFWWILRFP VFLAILNFF IFVRIVQLLV AKLRARQMH TDYKFLRAKS TLTPLLLGV</p> <p>HEVVFVFTD EHAQGLRSA KLFFDLFLSS FQGLLVAVLY CFLNKEVQSE LRRWRHWRRL</p> <p>GKVLWEERN SNHRASSPG HGPPSKELQF GRGGGSQDSS AETPLAGGLP RLAEPPF</p>	
135	1925	Gonadotropin -Releasing Hormone Receptor	NM_000406	<p>ttggttgctg gtccacttac aacactttt catatttcta tgtctttcca atggttatcc A</p> <p>tgttttgttc atttcaggca tatggccctg atcagattaa ctgacatgat gtatatgcaa</p> <p>agcctttga gttcttcaga aaaaataaatt atcttattca agactgattg cttataagga</p> <p>acttattata gctaatatag taggcacaa tttttttgta attctcctag atgagtcaga</p> <p>acttagtttt gatgtaggta aaaaattttat ggtcacaaat ctcaggtgtg agaaaatctc</p> <p>tttccctgat actctatata aatagaggat ataaatattt caagtctgga agtagtgaga</p> <p>gaagctggta attctggaca tatagtga ctaaaaaagg agctcaggta caggaactggt</p> <p>ctaagctgct caagattcag gagacagcca gtacacagag agctgagga aataatacag</p> <p>atatactaa aacacttacc taaccttctg tggtaacaag ctccttaag gggctggatg</p> <p>atgttgtgtt cactttttat caccagcaaa ggctaagata atgtatatag taaatattta</p> <p>gtaaccattt attaaataaa taaatattta agacagata acaagata ataaatgaac</p> <p>caataagaat gcaccatcta agtcaaaaata gccactttta tccctaacat tgtacctgct</p> <p>ttggctgctg cagaagcaaa cttgttgga ttagacaaat caagctggtg atttaataaa</p> <p>ttccaatgta agtcttacc gtattgatga ataactacc agcactacc atgaaagtta</p> <p>agaaagcaac acagaaaaag ttctaagtgt gtcccaattt gaaatgatca gataacctat</p> <p>aaaagaacat attcatatta tactaacata aacacatata atgcactta cagcagttac</p> <p>acagtattct cttcaataac tagtttctt atgcattaat gtgtaataac agcaactaca</p> <p>atatttagat aattataaaa accaaggcaa taatttaaaa actgattaac cgttttactc</p> <p>taacttaagc atggattgga tcagtaagat tgattataaa atttgaatgc agtcagttgg</p> <p>attgattcta atttaagtt ttaatttgtt gtagaataat tttaagtga tatatttgtc</p> <p>cagtgttcga gtgctcaaca gtgtgtttga aaagaaaaa aaagaatgtt ttgagaatgt</p> <p>gttaattcct taagacaatg gattttaatt ggatctgtt ttttcatttt tcttcattat</p> <p>cattatcac ctgtatgttg gacagaacac taacactaaa tagtttttag aaagtgtttt</p> <p>ttgaagttat ttaaatcata atatcatgac tgacttttga attcaaaaatt aggtgtgac</p> <p>tatccttctt cacttaggaa gagtgtgtg aaagccagac catctgctga ggtgctacac</p> <p>ttacatgtgg ccctcagaat gcgtttggcc tgctctgttt tagcactctg ttggattacc</p>	Homo sapiens

136	Gonadotropin -Releasing Hormone Receptor	NP_000397.1	1925	<p> aatacacaaa acaagttaac ctttgatctt tcacattaag tatctcaggg acaaaatttg acatacgtct aaacctgtga cgtttccatc taaagaaggc agaaataaaa catggacttt agattcgggt acaataaaat atcagatgca ccagagacac aaggcttgaa gctctgtcct gggaaaatat ggcaaacagt gctctcctg acacacatca aatcacatgt tcagccatca aacaacagat ccacatgatg cagggaaccc tccccactct gacctgtctt ggaagatccc gagtacggt tactttcttc cttttctgc tctctgcgac tcttaatgct tctttctgt tgaaccttca gaagtggaca cagaagaaag agaaaggga aagctctca agaataagc tgctcttaaa acatctgacc ttagccaacc tgttgagac tctgattgtc atgccactgg atgggatgtg gaacattaca gtccaatggt atgctggaga gttactctgc aaagtctca gttatctaaa gctttctcc atgtatgcc cagccttcac gatggtggtg atcagcctgg accgctccct ggctatcacg aggcctctag ctttgaagg caacagcaaa gtggacagt ccatggttgg cctggcctgg atcctcagta gtgtcttgc aggaccacag ttatacatct tcaggatgat tcatctagca gacagctctg gcagacaaa agttttctct caatgtgtaa cacactgcag tttttcaca tgggtggcatc aagcatttta taactttttc accttcagct gcctcttcac catcctctt ttcacatgc tgatctgcaa tgcaaaaatc atcttcaccc tgacacgggt ccttcacag gaccccaag aactacaact gaatcagtc aagaacaata taccagagc agggctgaag actctaaaaa tgacggttgc atttgccact tcattactg tctgctggac tccctactat gtcctaggaa tttggtattg gtttgatcct gaaatgttaa acaggtgtgc agaccagta aatcacttct tctttctctt gtccttttta aaccctagct ttgatccact tatcttga tattttctc tgtga </p>	<p> VTFNFLLSA TFNASFLKL P WNITVQWYAG ELLCKVLSYL SNKVGQSMV GLAWILSSVF AGPOLYIFRM IIPLFIMLIC NAKIIFLTR TPYVVLGIWY WFDPENLRL </p>	Homo sapiens
137	Opsin, green- sensitive	NM_000513	1945	<p> atggcccagc agtgagcct ccaaggctc gcaggccgcc atccgcagga cagctatgag A gacagcaccc agtcacagcat ctteacctac accaacagca actccaccag agccccttc gaaggccga attaccacat cgtccacaga tgggtgtacc acctaccag tgtctggatg atctttgtg tcatgcatc cgtttcaca aatgggcttg tgctggcggc caccatgaag ttcaagaagc tgcgccacc gctgaactgg atcctgggtga acctggcggc cgtgacctg gcagagaccg tcatgccag cactatcagc gttgtgaacc aggtctatgg ctactctgtg ctgggccacc ctatgtgtgt cctggagggc tacacctct cctgtgtgtg gatcacaggt ctctgtctc tggccatcat tctctgggag agatggatgg tggcttgcaa gcccttggc aatgtgagat ttgatgcaa gctggccatc gtgggcattg ccttctcctg gatctgggt gctgtgtgga cagccccgcc catctttggt tggagcaggt actggcccca cgccctgaag acttcacgc gccagacgt gttcagcggc agctcgtacc ccggggtgca gctttacatg attgtctca tggtaacctg ctgcatcacc cactcagca tcatcgtgct ctgtaacctc caagtgtgc tggccatccg agcgttgga aagcagcaga aagagtctga atccaccag aaggcagaga aggaagtgc gcgatggtg gtggtgattg tctggcatt ctgctctgc tggggaccat acgccttctt cgcgtgctt gctgctgca accctggcta cccctccac </p>	<p> atccgcagga cagctatgag A actccaccag agccccttc acctaccag tgtctggatg caccatgaag cgtgacctg gatcacaggt gcccttggc gctttacatg ctgtaacctc atccaccag ctgctctgc ccccttcac </p>	Homo sapiens

138	1945	Opsin, green- sensitive	NP_000504.1	MAQWLSLQRL AGRHPQDSYE DSTQSSIFTY TNSNSTRGPF EGPNYHIAPR WYHLTSVWM P IFVVIASVET NGLVLAATMK FKLRLHPLNW ILVNLAVADL AETVIASTIS VVQVYGYFV LGHPMCVLEG YTVSLCGITG LMSLAISWE RWMVVCPRFG NVRFDAKLAI VGIAFSWIWA AVWTAPPIFG WSRYPHGLK TSCGPDVFSG SSYPGVQSYM IIVMTCCIT PLSIIVLCYL QVWLAIKRAVA KQKSESESTQ KAEKEVTRMV VVMVLAFCFC WGPYAFFACF AAANPGYPFH PLMAALPAFF AKSATIYNPV IYVFMNRQFR NCILQLFGKK VDDGSELSSA SKTEVSSVSS VSPA	Homo sapiens
139	1951	Growth Hormone Secretagogue Receptor	NM_004122	atgtggaacg cgacgcccag cgaagagccg ggggtcaacc tcacactggc cgacctggac A tgggatgctt ccccgccgcaa cgactcgctg ggcgacagc tgctgcagct ctcccccg ccgctgctgg cggcgctcac agccacctgc gtggcactct tcgtggtggg tatcgctggc aacctgctca ccatgctggt ggtgtcgcg tcctcgcgagc tgcgcaccac caccacctc tacctgtcca gcatggcctt ctccgatctg ctcatcttcc tctgcatgcc cctggacctc gttcgctctt ggcagtaccg gccctggaac ttccggcacc tcctctgcaa actcttccaa ttcgtcagtg agagctgcac ctacgccacg gtgctcacca tcacagcgt gagcgtcgag cgctacttcg ccatctgctt ccactccgg gccaaagtggt tggtcaccaa gggcggggtg aagctggtca tcttcgtcat ctgggcccgt gcccttgca gcgccgggct catcttctgt ctagtcgggg tggagcacga gaacggcacc gaccttgagg acaccaaga gtgccgcccc accgagtttg cgggtgcctc tggactgctc acggtcattg tgtgggtgtc cagcatcttc ttcttccttc ctgtctctg tctcacggct cctcacagc gcctcgctca ggaactgttg cggaggaggc gcggcgatgc tgcgtgggtt gcctcgctca gggaccagaa ccacaagcaa accgtgaaaa tgcgtgggtg gtctcagcgc gcgtcagcc tttctctcgc ggtctctatc ctctccctgt gccttctccc tctctctga	Homo sapiens
140	1951	Growth Hormone Secretagogue Receptor	NP_004113.1	MWNATPSEP GENLTADLD WDASPGNDSL GDELLQLFPA PLLAGVTATC VALFVVGIAG P NLLTMLVVSF FRELRTTNL YLSSMAFSDL LIFLCMPIDL VRLMQYRPWN FGDLCKLFQ FVSECTYAT VLTITALSVE RYFAICFPLR AKVVTGKRV KLIVFVIWAV AFCAGPIFV LVGVEHENT DPWDNECRP TEFAVRSGLL TVMVVSSIF FFLPVFCLTV LYSLIGRKIW RRRRGDVVG ASLRDQNHQ TVKMLGGSQR ALRLSLAGPI LSLCLLPSL	Homo sapiens
141	1954	Growth Hormone- Releasing Hormone Receptor	NM_000823	agcagccaag gcttactgag gctggtggag ggagccactg ctgggctcac catggaccgc A cggatgtggg gggcccacgt ctctgctgt ttgagccgt taccgaccgt attggggccac atgcacccag aatgtgactt catcacccag ctgagagagg atgagatgc ctgtctacaa gcagcagagg agatgcccac caccacctg ggtgcccctg cgacctggga tgggctgctg tgctggccaa cggcaggtc tggcagtggt gtcacctcc cctgcccga tttctctct cacttcagct cagagtcagg gctgtgaaa cgggattgta ctatcactgg ctggtctgag ccctttccac cttaacctgt ggcctgccc ttgcctctgg agctctggc tgaggaggaa tcttacttct ccacagtgaa gattatctac accgtgggccc atagcatctc tattgtagcc ctcttcgtgg ccatcaccat cctggttgct ctcaggaggc tccactgccc ccggaactac gtccacacc agctgttcac cactttatc ctcaaaggcg gacgtgtgtt cctgaaggat	Homo sapiens

142	1954	Growth Hormone- Releasing Hormone Receptor	NP_000814.1	<p>gctgcccctt tccacagcga cgacactgac cactgcagct tctccactgt tctatgcaag gtctctgtgg ccgcctccca ttctgccacc atgaccaact tcagctggct gttggcagaa gccgtctacc tgaactgctt cctggcctcc acctccccc gtgtcttcca cgtcaaggag agccttctgg tggctggttc tcgtggttg gggcctgccc ggtgtcttga ggtgcacgtg ggtgagctgc aaactggcct tcgaggacat cgcgtgctgg gacctggagc acacctcccc ctactggtgg atcatcaag gcccattgt cctctcggtc ggggtgaact ttgggctttt tctcaatatt atccgcatcc ttgtgaggaa actggagcca gctcagggca gcciccatcc ccagctctcag tattggcgtc tctccaagtc gaccttttc ctgataccac tctttggaat tcactacatc atcttcaact tctgcccaga caatgctggc ctgggcaccc gctccccct ggagctggga ctgggttctt tccagggtt cattgttggc atcctctact gcttctctca ccaagaggtg aggactgaga tctcacggaa gtggcatggc catgacctg agcttctgcc agcctggagg acctgtgcta agtgaccac gcttccccg tcggcggcaa aggtgctgac atctatgtgc taggtgctt catcacgcca ctggagtcca cacttgaatt tgggcagcta ccacgggtct gccatgctt ggaggagcaa gggggccaca tccccacccc agctgttacc cagcccgggg caggtgcagc ccttctccc tgtctctgca tctgactctc ttttgaggtc cctgtatgtc tacctctgac ttctgtggtc cctctgtgtc tgcctctc ccttctctt actggggcct gggctctag cccaaggctc agaggagcca ataaacctgt aaatgaaaaa aaaaaa MDRRMWGAHV FCVLSPLPTV LGHMHPECDF ITQLREDESA CLQAAEEMPNTTLGCPATWD P GLLCWPTAGS GEWVTLPCPD FFSHESSEG AVKRDCITIG WSEPPFPYPV ACPVPLELLA EESYFSTVK IITYVGHSSS IVALFVAITI LVALRRLHCP RNYVHTQLFT TFIKAGRVF LKDAALFHS DTDHCSFSTV LCKVSVAAASH FATMTNFSWL LAEAVYLNCL LASTSPSRR AFWLVLAGW GLPVLFTGTW VSCKLAFEDI ACWDLDDTSP YWIIKGPV LSVGVNFGFLF LNIIRILVRK LEPAQGLSHT QSQYWRLSKS TLFLIPLFGI HYIIFNLPD NAGLGIRLPL ELGLGSFQGF IVALLYCFLN QEVRTFISRK WHGHDPPELLP AWRTRAKWTT PSRAAKVLT SMC</p>	Homo sapiens
143	2120	Histamine H1 Receptor	NM_000861	<p>caggagagaca tacaggattt aagaagccca tcatggagaa gaccttcaat tacagagata A aaaagtttt ctgttggaac aagttaacac tagatggcag ataacagact gaggagtgag ctgcttctga ctcgattaaa aaggagtgga gccataaact gcggtgctc tttcgccaat gagcctccc aattcctct cctctttaga agacaagatg tgtgaggga acaagaccac tatggccagc cccagctga tgcctctggt ggtggtcctg agcactatct gcttgggtcac agtagggctc aacctgctg tctgtatgc cgtacggagt gagcggaagc tccacactgt ggggaacctg tacatcgtca gctctcgtt ggcggacttg atcgtgggtg ccgtcgtcat gcctatgaac atcctctacc tctctatgtc caagtggta ctgggccgtc ctctctgcct cttttggctt tccatggact atgtggccag cacagctcc attttcagtg tcttcatcct gtgcattgat cgctaccgt ctgtccagca gcccctcagg taccttaagt atcgtaccaa gacccgagcc tcggccacca tctctggggc ctggtttctc tctttctgt gggttattcc cattctaggc tggaaatcact tcatgcagca gacctcgtg cgccgagagg acaagtgtga gacagacttc tatgatgtca cctgggttcaa ggtcatgact gccatcatca acttctacct gccacacttg ctcatgctct gttctatgc caagatctac aagcccgtag gacaaactg ccagcacggg gagtcatca ataggtccct ccttctctc tcagaaatta agctgaggcc agagaacccc aagggggatg ccaagaaacc agggaaggag tctccctggg aggttctgaa</p>	Homo sapiens

aaggaaagcca aaagatgctg gtgtggatc tgtcttgaag tcaccatccc aaacccccaa
ggagatgaaa tcccagttg tcttcagcca agagatgat agagaagtag acaaaactcta
ctgctttcca cttgatattg tgcacatgca ggctgcggca gaggggagta gcagggacta
tgtagccgtc aaccggagcc atggccagct caagacagat gagcagggcc tgaacacaca
tgggccagc gagatatcag agtatcagat agtgaatcct tctctggaac
ggactcagat accaccacag agacagcacc aggcaaaagg aaattgagga tgggtcttaa
cacaggcctg gattacatca agtttacttg gaagaggctc cgctgcatt caagacagta
tgtatctggg ttgcacatga accgcgaaag gaaggccgcc aaacagttgg gttttatcat
ggcagccttc atcctctgct ggatccctta ttcatcttc ttcattgtca ttgcctctg
caagaaactgt tgcaatgaac atttgcacat gttcaccatc tggctgggct acatcaactc
cacactgaac cccctcatct accccttgct aagggaggct ctgaggggat gcaacaaaat gatccttatg
aatctgcat attcgtcctt aggaataga ggacgaaggc ctgtgtgttg ccaggcaggc acctgggctt
atgtccaaca aggaataga ggacgaaggc ctgtgtgttg ccaggcaggc acctgggctt
tctggaatcc aaaccacagt cttaggggct tggtagtttg gaaagtctct aggcaccata
gaagaaacgc agatggcgtt gatcagcaga gagattgaac tttgaggagg aagcagaatc
tttgcaagaa agtcagacct gttcttgta actgggttca aaaagaaaaa aataataaaa
ataaaagaga gagagaatca gacctgggtg gaactctct gctcctcagg aactatggga
gcctcagact cattgtaatt caagcttctc gagtcaagt attgacaact gaagagacac
tggtctaggg ttccactgga gaattgaaaa ggactcttga gccctcctgg aatggagctg
tataactgtg cagagacttt atccatgcca atagtgtctg tccccttcca ggggtcacct
tgagaggcat gacagctgtt ccacaggggc tatccctctc cagaaaaact ctctctgag
cctctttaac agctttctcc agaaccagtg tctgaaccac cctggaaaatt ctgccttatt
atttcttact caaacatgtt tagagtggat aaaaattat ccgacttgca caccatcat
ctttaacccc aaatttcctt tggctattaa aaaaagtgtg gcaaaaggca tctcaaaag
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cagaatgcca tatttttgag ggctgtacta ggtttatctc atttaagccc caaacaccc
cacaggaggg taattttcta actctagttt gcagaggagc aaattgaggt tcagcaaggt
gagagaggta ccaagggtca catagctagt tatgtgagaa agttagagta cagatcctct
gggttttcag cttattgtag catattttct ccgaaaggca aaaatgtgc cttttggccg
ggcatgttag ctcaagccta taatccagc atgttgagag gctgagggtg gcagatcatt
tgaggccagg agttcaagac cagtctggcc aatatggaga aaccttgctt ctactaaaa
cacaaaaatt atctgggcat ggtggggcat gcctgtagtc ccacttactt gggaggccga
ggcacgagaa tcgcttgaac ccgggaggtg gaggttgcg tgagccaaga tcacgccact
gcactccagc ctgggcaaca gagcaagact ctgtctcaaa aaaaaaata caatattta
acaaatgtcc ctcttaagtg tgcaagata cacatacacg gtattcccaa gagtgtggc
agctcaaaat gatattgttg agtagacgaa cagctgacat ggagtccccg tgcacctacg
gaaggggacg ctttgaagga accaagtga cttttatctg tgagtctgt tgtgtttgtc
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gaacatgtag ttttacttgg tgtttatgtt gcaattgtgt tgtgatttat attttaagc
ttggtgctaa accacaatat gtatagcaca tggagtgctt gtacaagctg atgttttga
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144 2120 Histamine H1 NP_000852.1 Receptor Homo sapiens

atgtttaaaa gcataactcta tgtgatttat ttattttctac tttttctgagt ctcttgggact
 aagaagatgt tttgaaatgt accatcaaat gtttaacagag tttgatattgg gctttctctt
 tggtttctca tcacatttgt aaatgtcttt tcaaaaggat ttactttttg taaaaagctt
 cattctcact ctgctttgca tccccaaac ttctttgtta aaacgggggg agtttaggag
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 agaagacctc cctgtgagag agtgcctc aggggtccct caggaccaa aacactcga
 aaagagcact tcacacagac aagtggctaa ggtccatta ttaccttga acaatcaagg
 caactagtgg agagaactga ttgtagctc
 MSLPNSSCLL EDKCEGNKT TMASQMLPL VVVLSTICLV TVGLNLLVLY AVRSEKLTHT P
 VGNLYIVSLV VADLIVGAV MPNNIYLIM SKWSLGRPLC LFWLSMDYVA STASIFSVEI
 LCIDRYRSVQ QPLRYLKRT KTRASATILG AWFLSFLWVI PILGNWHFMQ QTSVRREDKC
 ETDFYDVTWF KVMTAIINFY LPTLLMLWFY AKIYKAVRQH CQHRELINRS LPSFSEIKLR
 PENPKGDAKK PGKESPWEVL KRPKDAGGG SVLKSPSQTP KEMKSPVFS QEDDREVDKL
 YCFPLDIVHM QAAEGSSRD YVAVNRSHGQ LKTDQGLNT HGASEISEDQ MLGDSQSFSR
 TDSDTTETA PGKGLRSGS NTGLDYIKFT WKRLRSHSRQ YVSGLHMNRE RKAAKQLGFI
 MAAFILCWIP YFIFFMVIAF CKNCCNEHLH MFTIWLGYIN STLNPLIYPL CNENFKKTFK
 RILHRS

145 2121 Histamine H2 NM_022304 Receptor Homo sapiens

ctctgccc ccactgactc cagagaggga gatccccagt acttgactcc atcacgcaga A
 tgggagcagg caccagctat ggagaggat acagctgcgt ctccacatga cccatcctgc
 atgacaccaa agccaccgcc agacagtgc tcggaattcta tgcaaaacct gggaaagcga
 gacctacc agccccggga gaaagctagc tcttcagagg accgtctgag gactggagt
 tgatccatga acctggcttc gaggccttc ctctctctct tcttcattca tattcattcc
 caacacctta gaaggtgttg cttaatttat ttctagaaaa gcagcccaga gtcagtcatc
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 acagcctct cctttgcct ggaactacc gcatgcaaga tcaccatcac cgtggtcctt
 gcggtcctca tctcatcac cgttgctggc aatgtgttcg tctgtctggc cgtgggcttg
 aaccgcggc tccgcaacct gaccaattgt tcatcgtgt tcttgctat cactgacctg
 ctctcgcc tctggtgt gctctctct gccatctacc agctgtcctg caagtggagc
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 taccctgtgc tggtaacccc agtccgggtc gccatctctc tgggtctaat ttgggtcatc
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 aagggcaatc ataccacctc taagtcaaa gtccaggta atgaagtga cgggctggtg
 gatgggctgg tcaccttcta cctccgcta ctgacatgt gcatcaccta ctaccgcatc
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 accatcagg agcacaagc cacagtga caagcggcgc tcatgggggc cttcatcatc
 tgctggttc cctactcac cgcgtttgtg taccgtgggc tgagagggga tgatgccatc
 aatgaggtgt tagaagccat cgttctgtgg ctgggctatg ccaactcagc cctgaacccc
 atcctgtatg ctgcgctgaa cagagacttc cgcaccgggt accaacagct cttctgtgc

146	2121	Histamine H2 Receptor	NP_071640.1	<p>aggctggcca accgcaactc ccacaaaact tctctgaggt ccaacgcctc tcagctgtcc</p> <p>aggacccaaa gccgagaacc caggcaacag ccctgaagct ccaggtgtgg</p> <p>agtgggacag aagtcacggc ccccagggg gccacagaca ggtaatagcc ctgacattg</p> <p>gtcacagga tgggggcaat gggaggggat gctacttgat ggaatgatta agggagctgc</p> <p>tgcttagtg gtgctgtgtt atgttctagg aactcttcag gacgactttg taaacacct</p> <p>cttgcttaac cctcccaacg gcccccaag gtagaactta gctccctttt aaaaggagca</p> <p>cattaaaatt ctgagaggac ttggcaagg cgcacagct ggggcat</p>	Homo sapiens
147	2783	Opioid Receptor, kappa 1 (OPRK1)	NM_000912	<p>MAPNGTASSE CLDSTACKIT ITVVLAVLIL ITVAGNVVVC LAVGLNRRRLR NLTNCFIVSL P</p> <p>AITDLLLGLL VLPFSAIYQL SKWSPGKVF CNIYTSLDVM LCTASILNLF MISLDRYCAV</p> <p>MDPLRYPVLV TPVRVAISLV LIWVISITLS FLSIHLGWN SNETSKGNHT TSKCKVQVNE</p> <p>VYGLVDGLVT FYLPLLIMCI TYRIRPKVAR DQAKRINHIS SWKAATIREH KATVTLAAM</p> <p>GAFIICWFPY FTAIFYRLR GDDAINEVLE AIVLWLYAN SALNPILYAA LNRDFRTGYQ</p> <p>QLFCCRANR NSHKTSLRSN ASQLSRTQSR EPRQEEKPL KLQVWSGTEV TAPQATDR</p> <p>tgcagcactc accatggaat ccccgattca gatcttcgc ggggagcctg gccctacctg A</p> <p>cgccccgagc gctgctctgc ccccacacag cagcgccctg tttcccggtt gggccgagcc</p> <p>cgacagcaac ggcagcgccg gctcgagga ccccgcttga ctcctgtagt ttcgtcgtgg</p> <p>ggccatcccg gtcatacaca cggcggtcta ctcctgtagt ttcgtcgtgg gcttggtggg</p> <p>caactcgtg gtcattgttc tgatcatccg atacacaaa atgaagacag caaccaacat</p> <p>ttacataatt aacctggctt tggcagatgc ttagttact acaaccatgc cctttcagag</p> <p>tacggtctac ttgatgaatt cctggccttt tggggatgtg ctgtgcaaga tagtaattc</p> <p>cattgattac tacaacatgt tcaccagcat cttcaccttg accatgata gctggagccg</p> <p>ctacattgcc gtgtgccacc cctggaaggc tttagacttc cgcacacctt tgaaggcaaa</p> <p>gatcatcaat atctgcatct ggctgctgc gtcactgtt ggcactcttg caatagtcct</p> <p>tggaggcacc aaagtcaggg aagacgtcga tgcattgag tgcctctgc agttccaga</p> <p>tgatgactac tctgtgtgg acccttctcat gaagatctgc gcttctcat ttcctctgt</p> <p>gacccctgc ctcatcatca tctgtctgta caccctgatg atcctgcgtc tcaagagcgt</p> <p>ccggctcctt tctggctccc gagagaaaga tcgcaacctg cgtaggatca ccagactggt</p> <p>cctggtgtg gtggcggtt tctgctctg ctggactccc attcacatat tcatcctggt</p> <p>ggaggtctg gggagcacct cccacagcac agctgcttc tccagctatt acttctgcat</p> <p>cgccctaggc tataccaaca gtagcctgaa tcccattctc tacgcctttc ttgatgaaa</p> <p>cttcaagcgg tgttccggg acttctgctt tccactgaag atgaggtgg agcggcagag</p> <p>cactagcaga gtcgaaata cagttcagga tctgcttac ctgagggaca tcatgggat</p> <p>gaataaacca gtagactag tctgtgagat gctctgtac ag</p>	Homo sapiens
148	2783	Opioid Receptor, kappa 1 (OPRK1)	NP_000903.1	<p>MESPIQIFRG EPGTCAPSA CLPPNSSAWF PGWAEPSDNG SAGSEDAQLE PAHISPAIPV P</p> <p>IITAVYSVVF VVGLVGNLSV MFVIRYTKM KTATNIYIFN LALADALVTT TMPFQSTVYL</p> <p>MNSWPFQDVL KIVISIDYY NMFTSIFTLT MMSVDRIYAV CHPVKALDFR TPLKAKINI</p> <p>CIWLSSSVG ISAILVGGTK VREDVDVIEC SLQFPDDDDY WWDLFMKICV FIFAFVIVPL</p> <p>IIIVCYTILM IRLKSVRLLS GSREKDRNLR RITRLIVVV AVFVVCWTPI HIFILVEALG</p> <p>STSHSTAALS SYFICIALGY TNSSLNPILY AFLDENFKRC FRDFCFPLKM RMERQSTSRV</p> <p>RNTVQDPAYL RDIDGMNKPV</p>	Homo sapiens
149	2964	Luteinizing	NM_000233	<p>ggccgccccat gaagcagcgg ttctcgccgc tgcagctgct gaagctgctg ctgctgctgc A</p>	Homo

Hormone/Chor
iogonadotrop
in Receptor

sapiens

agccgcgcgt gccacgagcg ctgcgcgagg cgctctgccc tgagccctgc aactgcgtgc
ccgacggcgc cctgcgctgc ccgccccca cgcgcggtct cactcgacta tcactgcct
acctccctgt caaagtgtat ccatctcaag ctttcagagg acttaatgag gtcataaaaa
ttgaaatctc tcagattgat tccctgaaa ggatagaagc taatgccttt gacaacctcc
tcaatttgtc tgaataactg atccagaaca ccaaaatctt gagatacatt gagccggag
catttataaa tcttcccgga ttaaaatact tgagcatctg taacacaggc atcagaaagt
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cactcaaaat atatgaaaat ggatttgaag aagtacaaa agtgcatctt aatgggacga
cactgacttc actggagcta aaggaaaacg tacatctgga gaagatgcac aatggagcct
tccgtggggc cacaggcccg aaaaccttgg atatttctt caccaaaattg caggccctgc
cgagctatgg cctagagtcc attcagaggc taattgccac gtcatcctat tcttaaaaa
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caaagacacc ccgattgtgt cctgaaccag atgcttttaa tccctgtgaa gacattatgg
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tttgcataat ctttttttca ttttcgtaat ttgtattgca tctataaaa atattagttc
ataacagatc agaaatttaa aataaggggc ttttctctca ggtagttga aaaacacact

150 2964 Luteinizing NP_000224.1 Hormone/Chor
iogonadotrop
in Receptor sapiens

ctagagatgc actgttcaat tcggtacgca ctaggccacat gtggctaaaat taaaattaaa
taaaatgaga aatgtagttt ctcagttgca ctacgtttca agttctcaat ggctacgtca
agttctcaat ggctacgtgt gactagtgct taccatactg gacagcacag acacagaata
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ctgatttcta cttatttata atttaaggta aacattcttg agcacatttc agcctatttg
cttagtgaaa cattaaagctg tagactgtaa actcctctg agtaggaacc ctgtctcagt
gcattttgtt ttctgtcttc ctacctcaag atcttggtgca ttgtacacta caaatgtgct
gagttagaat tactctgaag ttatgaaca tataatgaaa acaattttc cggcc

MKQRFSAQL IKLLLLLQPP LPRAUREALC PEPNCVDPG ALRCPGPTAG LTRLSLAYLP P
VKVIPSQAFR GLNEVIKIEI SQIDSLERIE ANAFDNLNL SEILIQNTKN LRYIEPGAFI
NLPGLKYL SI CNTGIRKFPD VTKVFSESN FILEICDNLH ITTIPGNAFQ GMNNESTLTK
LYNGGFEEVQ SHAFNGTTLT SLEKENVHL EKMINGAFRG ATGPKTLDIS STKLQALPSY
GLESIQRLIA TSSYSLKKLP SRETFVNLLE ATLTPYSHCC AFRNLPTKEQ NFHSISENF
SKQCESTVRK VSNKTLYSSM LAESELGWD YEYGFCLPKT PRCAPEPDAF NPCEDIMGYD
FLRVLIWLIN ILAIMGNTV LEVLLTSRYK LTVPRFLMCN LSFADFCMGL YLLLIASVDS
QTKGQYYNHA IDWQTGSGCS TAGFTVFEAS ELSVYTLTVI TLERWHTITY AIHLDOKLRL
RHAILMLGG WLFSSLIAML PLVGVSNYMK VSICFPMDE TTLSQVYILT ILILNVVAF
IICACYIKIY FAVRNPELMA TNKDTKIARK MAILIFTDET CMAPISFFAI SAAFKVPLIT
VTNSKVLVIL FYPINSCANP FLYAIFTKTF QRDFLLLSK FGCKRRRAEL YRRKDFSAYT
SNCKNGFTGS NKPSQSTLKL STLHCQGTAL LDKTRYTEC

151 2976 Lysophosphat NM_001401
idic Acid
Receptor
Edg2

acggcgcgct gggtcacac tgctccgcgc cggacgggct ttgtggttg gggcggcgct A
gcgagtcca gtgagagtgt ggtgcgcgct gtggtcgccg ggcgcggtg ggtggcgctg
cgttcttgag agccggcctg caggagcgca ggctccctcg gcctcccgca cccagcgcg
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ggggccttta tcatctgctg gactcctgga ttggttttg tacttctaga cgtgtgctgt
ccacagtgcg acgtgctggc ctatgagaaa ttcttctctt ccttctgta attcaactct

Homo
sapiens

152	2976	Lysophosphat NP_001392.1 idic Acid Receptor Edg2	<p>gcatgaacc ccattcattta ctctaccgc gacaaagaaa tgagcgccac ctttaggcag atcctctgct gccagcgag tgagaaacccc accggcccca cagaaggctc agaccgctcg gttcctctcc tcaaccacac catcttggtt ggagttcaca gcaatgacca ctctgtggtt tagaacggaa actgagatga ggaacagcc gtctctctct ggagataaa cagcctccc ctacccaatt gccagggcaa ggtggggtgt ggagctgag aaaaagtcacac tcatgtactt aaacactaac caatgacagt atttgtctt ggacccaca agacttgata tatattgaaa attagcttat gtgacaaccc tcatcttgat cccatccct tctgaaaagta ggaagtggga gctcttgcaa tggaattcaa gaacagactc tggagtgtcc atttagacta cactaactag acttttaaaa gatcttggtt ggtttggtgc agtcagaat aaattctggc tagttgaatc cacaacttca ttatatata ggcctccctt ttttattttt aaaggatacg ttacacttaa taaacacgtt tatgcctatc agcatgttg tgatggatga gactatggac tgcctttaaa ctaccataat tccatttttt cctttacata ggaacactgt aagttggaat tatctttgt ttagaaaaga tgcattgtaat gtatgtatgc agtatgctt acttaaaaaag attaaaaggga tactaatgtt aaatcttcta ggaatagaa cctagacttc aaagccagta tttgtttagg tcatgaagca aacaatgctc taatcacaat attaaactgt taattaaaat gttgtaacaa gtataaaaca ggggaatgtaa gtttattacc aaagtgtat gtattccaaa aagtcataag aagatgaagc actataatat tgttcccata tatttaaaat acccaagtac attctaatta ccagtataat agaggaaaat tttcgtagtc tttgtaaaat aatatactca tcatagaaaa cttgaaaaat gcagaaatgt ataaaaagc aaaaatgatt actgataata tcacaaccca gaagtaacca cctttaaaaa cgaaccccca tgtatgcta tatgtgtatt gtatactttt tttacataat tggagtacata ctgtaaacag ttttataagt agatcttttt cattgcaaaa ttgccacatt ttcttatggc attaaaaatt ttacaaaaac ataatttttaa tggctatatt atattccatt taatggatgc aactcagitt attaaacccat tcccatgttg ttaactattt aggttggttc taattttcat tattataaag tgcagaaaat ttggtgt</p> <p>MAAISTSPV ISQOFTAMN EPQCFYNESI AFFYNRSKGH LATEWNTVSK LVMGLGTVTC P IFIMLANLV MVAIYNRRF HFPIYYLMAN LAAADFFAGL AYFYLMNTG PNTRLTVST WLLRQGLDIT SLTASVANLL AIAIERHITV FRMLHTRMS NRRVWVIV IWTMAIVMGA IPSVGNVIC DIENCSNMAP LYSDSYLVFW AIFNLVTFV MVLYAHIFG YVRQTRMS RHSSGPRNR DTMSLLKTV VIVLGAFIIC WTPGLVLLL DVCCPQCDVL AYEKFLLLA EFNSAMNPII YSYRDKEMSA TFRQILCCQR SENPTGPTE SDRSASSLNH TILAGVHSND HSV</p>	Homo sapiens
153	3038	G Protein-Coupled Receptor MRG	<p>ttttgtatgt gttgcacccct agtctgttc atttctttt cctcagctga cattggagc A atagcagtcg atgatgccc cagacacact gccagact cagccccctg gagaacgca gatttcccta ttttccaggt caagtcctgc cagccataga aaggacttct ttggtgccc ctgctgtgaa atgcctgcct tggaaatctc agtgcctcct tgtacctgtc tgagccagg gaaatgccat actgtggcac tgtgtcatcc tgtatgcta cccaaggatg cccagactg gtttgaaaga gatgagacat ggcagggtgc ttgtgactc cttgtaatcc agcactttgg gaggtcaagg cagtggatca caaggtcaga tttagacca gccaggccaa tatggtgaaa acccatctc tactaaaaat acaaaaaatt agccgggcaa tgggtgtggg tgctgtagt tccagctagt caggaggccg aggcaggaga atcgcttgaa cctggaagggt ggaggttcca gtgagctgag atcgcgccac tgcactccag cctgggtgac agagtggagc tccaactcaa</p>	Homo sapiens

154	3038	G Protein- Coupled Receptor MRG	AAB21255.1	<p> aaaaaaaaa aaaaaagaga tgagacacta gtgtctcatg agtagaacct ggaccagaca caaatctcca ttcccaatgt ttagtgcttc attagtcccc acaacaaga tattgggtct atgtgggtag gcctggggca tcctgtacaa caggagatgt gtaggggag ggagaacaga tcacaaattc atggagagct atttgacag cagatactcc catccactct gatattgagt taatgttcag ctgttccctaa aaagcacacc caacaatggg tgttctattc cagcctagga aaatgtagag gcaagggttc tgaggccaga gacacacatt agatggacca ctgctcctga ctgtgatgtt gtggccact caggccccag caccctatgg tcgggggaa aatttgctgg ttcagccaga gggctggatg gacagtgtt gctgagtcac agatatctct ctcatgtagc cttgtctccc acagtgtga ccaggaggca cagaacccaa acctggtatc tcagctctgt ggcgtcttc ttcaaaatga gacgaatga accatacata tgcagatgag catggcagtg ggacagcagg cctgcccctt gaatatcatt gcccctaaag ctgtgctggt ctccctctgt gggtcttat tgaatggcac tgtcttctgg ctgcttctgt gtggggccac gaatccctac atggtatata tctccacct ggtgctgct gactgatct atcttctg ctggcagtg gggtcttac agtgactct gctaaactat catggagtcg tgtttttt cctgatttc ctggccatat tgtctccctt ctctttgag gtgtgctct gtctcctggt ggccatcagc acagagcggt gtgtgtgtgt cctcttccc atctgttaca gatgccacc ccaaaaatc acatctaag ttgtctgcac cctcatctgg ggcctgctt ttgcatcaa catagtaaaa tcaattttcc taacttactg gaaacatga aaggcatgtg tcatatttct aaagctttct gggtcttccc atgctatctt ttcactgtg atgtgtgtg cgagtctgac tctactcatt agattcctgt gctgctccca gcagcaaaa gcccacagg tctatgcgtt ggtgcagatc ctggccccca tgttctact ctggccccta cctctgagcg tggcaccctc cataacagat ttcaaaatgt ttgtcaccac ctctatttta atttcttgt tctcattat aaacagcagc gccaacccta tcaatttatt ctttggggg agcctcagaa agaaaaggct gaagaaatct ctcagagtga ttctccaaag ggcgttagca gataagcag aggtggggag gaacaaaaag gcagctggga tcgacccaat ggagcaacca cacttactc agcatgtgga gaaccttctt cccaggagag acagggtcga ttgggaaaca taatttccca catctgagct ggggaattgt acacatagta acccagcctg ttctgcatca taaggctgct gcatcaaatc aatgctttat tctaataag ttcagcttcc atggacttcc aaaaacaccc ctgtgtgtt gtggttgga gagacattaa ctctcttct aggcagtaag cccagtttga atgtgtcca gttccaaaga tgaggggaaat gggaccaggt gagactttcc tggtaacctgt ggaatccaaa taaagaccat acaaaggcat gaattc </p>	Homo sapiens
155	3057	Melanocortin 3 Receptor (MC3R)	NM_019888	<p> TQHVNNLLPR EHRVDVEF atgagcatcc aaaaagaatga tctggaggga gatattgtct ttcctgtgag cagcagcagc A ttcctacgga cctgtctgga gcccagctc ggatcagccc ttctgacagc aatgaatgct tcgtgctgcc tgccctctgt tcagccaaca ctgcctaagt gctcggagca cctccaagcc </p>	Homo sapiens

156	3057	Melanocortin NP_063941.1 3 Receptor (MC3R)	<p>ccttttctca gcaaccagag cagcagcgcc ttctgtgagc aggttctcat caagcccgag attttctgt ctctgggcat cgtcagtgct ctggaataca tcctgggttat cctggccgtg gtcaggaacg gcaacctgca ctcccagatg tacttcttcc tctgcagcct ggccgtggcc gacatgctgg taagtgtgc caatgccctg gagaccatca tgatcgccat cgtccacagc gactacctga ccttcgagga ccagtttacc gagcacatctt caaacatctt cgaactccatg atctgcactc ccttggtggc ctccatctgc aacctcctgg ccacgcctg ccacaggtac gtcaccatct tttaacgcgt ccgtaccac agcatcatga ccgtgaggaa ggccctcacc ttgatcgtgg ccatctgggt ctgctgggc gtctgtggcg ttgtgttcat cgtctactcg gagagaaaa tggctattgt gtgcctcatc accatgttct tgcctatgat gctcctcatg ggcaccctct acgtgcacat gttcctcttt gcgcggctgc acgtcaagcg catagcagca ctgccacctg ccgacggggt ggccccacag caaacactcat gcatgaagg ggacgtcacc atcaccatct tctgggctg gttcatcttc tgctgggccc ccttcttctt ccacctggtc ctcatcatca cctgccccac caaccctac tgcattctgt acactgcccc cttaaacacc tacctgttcc tcatcatgtg caactcctgc atcgacccac tcatctacgc ttcccgagc ctggaattgc gcaacacctt tagggagatt ctctgtggct gcaacggcat gaactggga tag</p>	<p>MSIQKKYLEG DFVFPVSSSS FLRTLLPQL GSALLTAMNA SCCLPSVQPT LPNGSEHLQA P PFFSNQSSSA FCEQVFIKPE IFLSLGIVSL LENILVILAV VRNGNLHSPM YFFLCSLAVA DMLSVSNAL ETIMIAIVHS DYLTFEDQFI OHMDNIFDSM ICISLVASIC NLALIAVDYR VTIFYALRYH SIMTVRKALT LIVAIWVCCG QGSCVFIVYS ESKMIVICLI TMFFAMMLLM GTLVHMFELF ARLHVKRIAA LPADGVAPQ VCHVMKGAVT ITILLGVFIF CWAPFFLHLV LIITCTPNPY CICYTAHENT YLVLMCNSV IDPLIYAFRS LELRNTFREI LCGCGNMNLG</p>	Homo sapiens
157	3058	Melanocortin NP_005912 4 Receptor (MC4R)	<p>atggtgaact ccaccacccg tgggatgcac acttctctgc acctctggaa ccgcagcagt A tacagactgc acagcaatgc cagtgaagtc cttggaaaag gctactctga tggaggggtgc tacgagcaac tttttgtctc tctgaggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc acctatgtac ttttcatct gcagctggc tgggctgat atgctgggtga gcgtttcaaa tggatcagaa accattatca tcacctatt aacagtaga gatacggatg cacagagttt cacagtgaat attgataatg tcattgactc ggtgatctgt agtctctgc ttgcattcat ttgcagcctg ctttcaattg cagtggacag gtactttact atcttctatg ctctccagta ccaataacatt atgacagtta agcgggttgg gatcatcata agttgtatct gggcagcttg caccgtttca ggcattttgt tcatcattta ctacagatagt agtgcgttca tcatctgct catcaccatg ttcttcacca tgcgtgctct catggcttct ctctatgtcc acatgttct gatggccagg cttcacatta agaggattgc tgcctcccc ggcaactggtg ccacccgca agtgccaat atgaaggag cgattacctt gaccatcctg atggcgctt ttgtgtctg ctgggccccca ttcttctctc acttaatat ttacatctct tgcctcaga atccatattg ttgtgtcttc atgtctcact ttaacttga tctcatactg atcatctgta attcaatcat cgaactcctg atttatgcac tccggagtca agaactgagg aaaacctca aagagatcat ctgttctat ccccgggag gccttctga ctgtctagc agatattaa</p>	<p>atggtgaact ccaccacccg tgggatgcac acttctctgc acctctggaa ccgcagcagt A tacagactgc acagcaatgc cagtgaagtc cttggaaaag gctactctga tggaggggtgc tacgagcaac tttttgtctc tctgaggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc acctatgtac ttttcatct gcagctggc tgggctgat atgctgggtga gcgtttcaaa tggatcagaa accattatca tcacctatt aacagtaga gatacggatg cacagagttt cacagtgaat attgataatg tcattgactc ggtgatctgt agtctctgc ttgcattcat ttgcagcctg ctttcaattg cagtggacag gtactttact atcttctatg ctctccagta ccaataacatt atgacagtta agcgggttgg gatcatcata agttgtatct gggcagcttg caccgtttca ggcattttgt tcatcattta ctacagatagt agtgcgttca tcatctgct catcaccatg ttcttcacca tgcgtgctct catggcttct ctctatgtcc acatgttct gatggccagg cttcacatta agaggattgc tgcctcccc ggcaactggtg ccacccgca agtgccaat atgaaggag cgattacctt gaccatcctg atggcgctt ttgtgtctg ctgggccccca ttcttctctc acttaatat ttacatctct tgcctcaga atccatattg ttgtgtcttc atgtctcact ttaacttga tctcatactg atcatctgta attcaatcat cgaactcctg atttatgcac tccggagtca agaactgagg aaaacctca aagagatcat ctgttctat ccccgggag gccttctga ctgtctagc agatattaa</p>	Homo sapiens
158	3058	Melanocortin NP_005903.1 4 Receptor	<p>ENILVIVAIA KKNLHSPMY FFICSLAVAD MLVSVSNGSE TIIITLLNST DTDQSFYVN</p>	Homo sapiens	

(MC4R)		IDNVIDSVIC SSSLASICSLSL LSIADVDRYFT IFYALQYHNI MTVKRVGIIL SCIWAACVTS GILFIIYSDS SAVIICLITM FFTMLALMAS LYVHMFELMAR LHIKRIAVLP GTGAIRQGAN MKGAITLTIL IGVFVWCWAP FFLHLIFYIS CPQNYPYCVCF MSHFNLYLIL IMCNSIIDPL IYALRSQELR KTFKEIICCY PGLGLDLSS RY	Homo sapiens
159	3059 Melanocortin NM_005913 5 Receptor (MC5R)	atgaattcct ctaattcacct gcatttcttg gatctcaacc tgaatgccac agagggcaac A ctttcaggac ccaattgtcaa aaacaagtct tcaccatgtg aagacatggg cattgctgtg gaggtgttc tcaactcggg tgteatcagc ctcttgaga acatcttggt cataggggccc atagtgaaga aaaaaacct gcactcccc atgtacttct tcgtgtgcag cctggcagtg gcggacatgc tggtagcat gtccagtgc tgggagacca tcaccatcta cctactcaac aacaagcacc tagtgatagc agacgccttt gtgcccaca ttgacaaatgt gtttgactcc atgatctgca ttccgtggt ggcaccatg tgacgcttac tggccattgc agtggatagg tacgtacca tcttctacgc cctggctac caccacatca tgacggcgag gcgtcaggg gccatcatcg ccggcatctg ggtttctgc acggctgag cattgtctt catcctgtac tcagaaacca cctacgtcat cctgtgctc atctccatgt tcttgcctat gctgttctc ctggtgtctc tttacatata catgttctc ctggcgagg ctcacgtcaa gcggatcgcg gcttgcccgc gggccagctc tggcgggcag aggaccagca tgacggcgcg ggtcacctgc accatgctgc tggcggtgtt tacogtgc tgggccccgt tcttcttca tctacttta atgctttctt gccctcagaa cctctactgc tctgccttca tgtctcactt caatatgtac ctcactactca tcatgtgtaa ttcogtgatg gacctctca tatatgcctt ccgcagccaa gagatgcgga agacctttaa ggagattatt tgctgcccgt gtttcaggat cgcctgcagc tttccagaa gggattaa	Homo sapiens
160	3059 Melanocortin NP_005904.1 5 Receptor (MC5R)	MNSSFHLHFL DLNLNATEGN LSGPNVKNKS SPCEMDGIIV EVFLTGLVIS LLENILVIGA P IVKNKNLHSP MYFFVCSLAV ADMLVSMSSA WETITIYILN NKHLVIADAF VRHIDNVFDS MICISVVASM CSLLAIADVR YVTIFYALRY HHIMTARRSG AIIAGIWAFC TCGIVFILI SESTYVILCL ISMFFAMFL LVSlyIHML LARTHVKRIA ALPGASSARQ RTSMQGAUTV TMLLGVTVC WAPFFLHLTL MLSCPQNLVC SREMSHFENMY LILIMNSVM DPLIYAFRSQ EMRKTKEII CCRGFRIACS FPRRD	Homo sapiens
161	3061 Melanocortin NM_002386 1 Receptor (MC1R)	ggagagggtg tgagggcaga tctgggggtg ccagatgga aggaggcagg catgggggac A accaaaggcc cctgggcag accatgaact aagcaggaca cctggagggg aagaactgtg gggacctgga ggcctccaa gactccttc tgcttctgg acaggactat ggctgtgcag ggatcccaga gaagacttct gggctccctc aactccacc ccacagccat cccccagctg gggtgggtg ccaaccagac agagggcccg tgctggagg tgctcatctc tgacggggctc ttctcagcc tggggctggt gagcttgggt gagaaagcgc tgggtgtggc caccatgccc aagaacccga acctgcact accatgtac tgcttcatc gctgcctggc cttgtcgagc ctgctggtga gcgggagcaa cgtgctggag acggccgtca tctctctgct ggaggccggt gcactggtg cccgggctgc ggtgctgcag cagctggaca atgtcattga cgtgatcacc tgacgtacca tgcgtgccag cctctgttc ctggcgcca tgccgtgga cgcctacatc tccatcttct acgcactgc ctaccacagc atcgtgacc tggccggggc gcggcaagcc gttgcgcca tctgggtggc cagtgtgctc ttcagcagc cttctcatgc ctactacgac cagtgggccg tctgtgtg cctgtggctc tcttctcgg ctatgctgtg gctcatggcc gtgctgtacg tccacatgct ggccccggcc tgccagcagc cccaggggcat cgcctggctc	Homo sapiens

162	3061	Melanocortin 1 Receptor (MC1R)	NP_002377.2	agtggtgaag LGSLSNSTPTA IPQLGLAANQ TGAACLEVSI SDGLFSLGL VSLVENALVV P ATIAKNRNLIH SPMYCFICCL ALSDLLVSGS NVLETAIVILL LEAGALVARA AVLQQLDNVI DVTCSMLS SLCEFLGAIIV DRYISIFYAL RYHSIVTLPR ARQAVAAIWV ASVVFSTLFI AAYDHRVAVLL CLVFFFLAML VLMVLYVHM LARACQHAQG IARLHKRQRP VHQGFGLKGA VTLLILGIF FLCWGPFFLH LTLIVLCPEH PTCGCIFKNF NLFLALIICN AIIDPLIYAF HSQELRLRTLK EVLTCSW	Homo sapiens
163	3079	Melatonin Receptor type 1a	NM_005958	ccgagcggagc cttacaagt ggtcggggcg gggagcagag cgggagatgg cctcgcgccc A gggagcgcgaa cagggaacat gcagggcaac ggcagcgcg gcgcaaacgc cccccagccc gtgtcccgcg gggagcgcg gcggccctcg tggctggcgt cggccctagc ctgctcctc atcttcacca tctgtgtgga cactctggcg aactcctcgg tcactcctgc ggtgtatcgg aacaagaagc tcaggaaagc aggaacatc tttgtgtgga gcttagcggt ggcagacctg gtggtggcca ttatccgta cccgttggtg ctgatgtcga tatttaacaa cgggtggaac ctgggctatc tgcactgcca agtcagtggg tctctgatgg ccttagcggt catcggtccc atatccaaca tcaccggcat cgccatcaac cgtactgct acatctgcca cagtctcaag tacgacaaac tgtacagcag caagaactcc cctctctacg tgctcctcat atggctcctg acgtggcgcg ccgtccctgcc caacctccgt gcagggactc tccagtagca cccgagagatc tactcgtgca ccttcgcca gtcgctcagc tccgctaca ccatcgccgt ggtggttttc cacttctcgt tccccatgat catagtcatc tctgttacc tgagaatatg gatcctggtt ctccagggtca gacagagggt gaaacctgac cgcaaaccca aactgaaacc acaggacttc aggaaatttg tcaccatgtt tgtggtttt gtcctcttg ccatcttgct ggctcctctg aactcattg gctggcgtt ggcctctgac ccgcacagca tgggtgctag gatccccagag tggctgtttg tggccagtta ctacatggcg tatttaacaa gctgcctcaa tgcattata tacgggctac tgaacccaaaa tttcagggaag gaatacagga gaattatagt ctgcctctgt acagccagggt tgttctttgt ggacagctct aacgacgtgg ccgatagggt taaatggaaa ccgtctccac tgatgaccaa caataatgta gtaaggtgg actccgttta aaaaagcacc acgttccggg tgagatggac acgtgcgca aggcctcgct cttagacagt gctcgggaaa gcagagtgggt ggaggaaact tccaaacttt accctggctg tgccatagtt tctgagctaa cgtgctgtca gcatataaa cccctccaat ctactagtca agagaagtac agaattgtatg gagagttaaa tgttaactga ggaatgcggt tcagggtctg ggtgagagta agctgctgaa tgcatccagg ggaaggagtg tgcaaaacttt tatgtataa gagtgcaca aaagggttaa ttgcattctt cttcactttt tgaagacttc tagcagaaaa atgaaagaga attttattta taaatgagca aatggaaaca tttttttct gtaaatggaa caaacaatga aagtggggtg agtgcctctt attacagagg gaaaggctga acataaatca gttaatggct catcaacaat	Homo sapiens

164	3079	Melatonin Receptor type 1a	NP_005949.1	<p>caaaaccaca accaaacacca caaacctttc agctggcaga gttagcattg ggtagctata ctcatggtca taaatgtttg ccgtcttata ttacaagtgtg tgcattgcaac cagataaaga actaaatcat aggcgggga cagtgcgtca cacctgtaac ctacagcactt tgggaggctg aggtgggcag atcaactgag ttcaggagtt tgagaccacc ctggggcaac atgatgaaat cccatctcta aaaaaatata aaaaattatc tgggcatggt gcacacgctt gtaatccccag ctactcagga gactgagtta ggagaatccc ttgagcccca gaggcagagg ttgtggtgag ccgagatcgc gccagtacat tccaacttag gctacagaaat gagactctgc ccaaaaaaa aaaaaaa</p>	Homo sapiens
165	3080	Melatonin Receptor type 1b	NM_005959	<p>MQNGSALPN ASQVLRGDG ARPSWLASAL ACVLIFTIV DILGNLLVIL SVYRNKKLRN P AGNIFVWSLA VADLVVAIYP YPLVLSIFN NGWNLGYLHC QVSGFLMGLS VIGSIFNITG IAINRYCYIC HSLKYDKLYS SKNSLCYVLL IWLLTLAAVL PNLRAGTIQY DPRIYSCTFA QSVSSAYTIA VVHFHFLVPM IIVIFCYLRI WILVLQVRQR VKPDRPKLK PQDFRNFVTM FVVFLEAIC WAPLNFILGA VASDPASMVP RIPEWLFVAS YMYAFNSCL NAIYYGLLNQ NFRKEYRRII VSLCTARVFF VDSSNDVADR VKWKPSPLMT NNNVVKVDSV</p> <p>acgcgagctg ggcagggaag agagcgccc gctcagtaact gcgcgcgcgc tgcggctgtc A cggggccgcg cgggtggcga agcacagcgc gggagagtct gcgatgtcag agaaccggctc cttcgccaa tgcgtgcgag cggcggggtg ggcagtcgcg ccgggctggt cgggggctgg cagcgcgcg cctccagga cccctcgacc tccctgggtg gctccagcgc tgtccgcggt gctcatcgtc accacgcgc tggacgtcgt gggcaacctc ctggtgatcc tctccgtgct caggaaccgc aagctccga acgcaggtaa tttgttcttg gtgagctctg cattggctga cctggtggtg gcttctacc cctaccgctt aatctcttg gccattctt atgacggctg ggccctgggg gaggagcact gcaaggccag cgcctttgtg atgggcttga cgtcatcgg ctctgtcttc aatatcactg ccatcgccat taaccgtctac tgctacatct gccacagcat ggcctaccac cgaatctacc ggcgctgga caccctctg cacatctgcc tcatctggct cctcaccgtg gtggccttgc tgcccaactt ctttgtgggg tccctggagt acgacccacg catctattcc tgcaccttca tccagaccgc cagcacccag tacacggcgg cagtgggtgt catccacttc ctctcccta tgcgtgctg tctcttctg tacctgcgca tctgggtgct ggtgcttcag gccgcagga agccaagcc agagagcagg ctgtgcttga agccacgga cttgcgagc tttctaacca tgtttgtggt gtttgtgac tttgccatct gctgggctcc acttaactgc atcgccctg ctgtggccat caaccccaa gaaatggctc ccagatccc tgaggggcta tttgtcacta gctacttact ggcttattc aacagctgcc tgaatgccat tgtctatggg ctctgaacc aaaacttccg cagggaatac aagagatcc tctggccct ttggaacca cggcactgca ttcaagatgc ttccaaggc agccacgcg aggggctgca gagccagct ccaccatca ttggtgtgca gcaccagga gatgctctct agcctggatc tgaggcacac cagcagcatg acaaaactcat gaaatggtg gagagagctc gctgcaagg tgagaccagg cagcctgctg ggccacactg tctgttggc atcacagccc caaggctggg ggaacttcat gctgggacaa gcagcccatc aacgccattg gttcagctg atccaggaga tgctcacagg ccacaggacc tggaaaacac tcttgggtgt gtttgggga tttggtgac acaagaccaa ggaaggaca gaatgaggaa aggcctgggg cagaagagcc caactccttc tcatagctga cctcatcct cctgccttgg cctctctggc cttctctccc cttccccca gcatggcagg atctcttctt gttagcaagg atgaaagaga gaggtcagta ggactggaac</p>	Homo sapiens

166	3080	Melatonin Receptor type 1b	NP_005950.1	<p>ttgtaacta caaggccctc aggtggggca ggtgcagagg gc</p> <p>MSENGSPANC CEAGGWAVER GWSGAGSARP SRTPRPWA PALSAVLIVT TAVDVVGNLL P</p> <p>VILSVLRNRK LRNAGNLFV SLALADLVA FYFYPILVA IFYDGMALGE EHKASAFVM</p> <p>GLSVIGSVFN ITAIANRYC ICHSMAYHR IYRRWHTPLH ICLIWLLTVV ALLPNFFVGS</p> <p>LEYDPRISYC TFIQTASTQY TAAVVVHFL LPIAVVSFCY LRIWLVLOA RRAKAPESRL</p> <p>CLKPSDLRSF LTMFVVFVIF AICWAPLNCI GLAVAINPQE MAPQIPEGLF VTSYLLAYFN</p> <p>SCLNAIVYGL LNQNFREYK RILLALWNP RHCIDASKGS HAEGLQSPAP PIIGVQHQAQ</p> <p>AL</p>	Homo sapiens
167	3081	Melatonin- Related Receptor	NM_004224	<p>tggttgctgt ctggacctgg ctgctgatcc tgagcctgct gggagatctt aacgatcccc A</p> <p>aggagcaaca tggggccccc cctagcgggt cccaccocct atggctgtat tggctgtaag</p> <p>ctaccocagc cagaataccc accggctcta atcatcttta tgtctgcgc gatggttatac</p> <p>accatcggtg tagacctaat cggcaactcc atggtcattt tggctgtgac gaagaacaaag</p> <p>aagtcocgga attctggcaa catcttcgtg gtcagtctct ctgtggcgga tatgctggtg</p> <p>gccatctacc catacccttt gatctgcat gccatgtcca ttgggggctg gcatctgagc</p> <p>cagttacagt gccagatggt cgggttcata acagggtga gtgtggctg cccatcttc</p> <p>aacatcggtg caatcgctat caaccgttac tgcatactt gccacagcct ccagtacgaa</p> <p>cggatcttca gtgtgcgcaa tacctgcata tacctggtca tcacctggat catgaccgtc</p> <p>ctggctgtcc tgcccaacat gtacattggc accatcgagt acgatccctg cactacaccc</p> <p>tgcatttca actatctgaa caaccctgtc ttactgtta ccatcgctg catccacttc</p> <p>gtccctccct tctcatcgt ggtttctgc tacgtgagga tctggacca agtgcgtggc</p> <p>gccgtgacc ctgcaggga gaatcctgac aaccaacttg ctgaggttgc caattttcta</p> <p>accatgtttg tgatcttct cctcttgca gtgtgctggt gccatatcaa cgtgctcact</p> <p>gtcttggtgg ctgtcagtc ctcaacagc gagggaaga tcccaactg gctttatctt</p> <p>gcagcctact tcatagccta ctcaacagc tgcctcaacg ctgtgatcta cgggtcctc</p> <p>aatgagaatt tccgaagaga atactggacc atcttccatg ctatgcgga cctatcata</p> <p>ttcttccctg gcctcatcag tgatatctgt gagatgcagg aggccgtac cctggcccg</p> <p>gccctgccc atgctcgcga ccaagctcgt gaacaagacc gtgcccatgc ctgtcctgct</p> <p>gtggaggaaa ccccgatgaa tgtccggaat gtccattac ctggtgatgc tgcagctggc</p> <p>caccocgacc gtgcctctgg ccacccaaag cccattcca gatcctctc tgcctatcgc</p> <p>aaatctgctt ctacccacca caagtctgtc tttagccact ccaaggctgc ctctggtcac</p> <p>ctcaagcctg tctctggcca ctccaagcct gcctctggtc acccaagtc tgccactgtc</p> <p>tacctaaag ctgcctctgt ccatttcaag ggtgactctg tccatttcaa ggtgactct</p> <p>gtccatttca agcctgactc tgttcatttc agcctgctt ccagcaaccc caagcccatc</p> <p>actggccacc atgtctctgc tggcagccac tccaagtctg ccttcagtgc tggccaccagc</p> <p>caccctaaac ccatcaagcc agctaccagc catgtcgagc ccaccactgc tgactatccc</p> <p>aagcctgcca ctaccagcca ccctaagccc gctgctgctg acaaccctga gctctctgcc</p> <p>tccattgccc ccgagatccc tgccattgccc caccctgctg ctgacgacag tgacctccct</p> <p>gagtcggcct ctagccctgc cgttggggccc accaagcttg ctgccagcca gctggagctct</p> <p>gacaccatcg ctgaccttcc tgacctact tgagctacta ccagtaccaa tgattaccat</p> <p>gatgtcgtgg ttgttgatgt tgaagatgat cctgatgaaa tggctgtgtg aaaaatgctc</p> <p>tctaggtgg ccaggcagt</p>	Homo sapiens

168	3081	Melatonin-Related Receptor	NP_004215.1	MGPTLAVPTP NSGNIFFVSL AIAINRYCYI NYLNNPVFTV VIFLLFAVCW FRREYWTIFH TPMNVNRVPL VSGHSKPASG HVSAGSHSKS PEIPAIAHPV VVDVEDDPDE MAV	YGCIGCKLPQ SVADMLVAIY CHSLQYERIF TIVCIHFVLP CPINVLTVLV AMRHPIIFFP PGDAAAGHPD HPKSATVYPK AFSAATSHPK SDDSLLPESA MAV	PEYPPALIIIF PYPLMLHAMS SVRNTCIYLV IWKVLAARD AVSPKEMAGK GLISDIREMQ RASGHPKPHS PASVHFKGDS PIKPATSHAE SSPAAGPTKP AASQLESDDTI	MFCAMVITIV IGGWDLSQLQ ITWIMTVLAV IWKVLAARD FIAYFNSCLN HARDQAREQD RSSHVAFKSA VHFKGDSVHF PTTADYPKPA ADLPDPTVVT	VDLIGNSMVI QCMVGFIITGL LPNMYIGTIE PAGQNPNDQL FIAYFNSCLN HARDQAREQD STHHKSVFHS KPDSVHFKPA TTSHPKPA TSTNDYHDDV	LAVTKNKKLR SVVGSIFNIV YDPRYTCIF AEVRNFLTME AVIYGLLNN RAHACPAVEE SKAASGHLKP SSNPKPITGH DNPESASHC	Homo sapiens
169	3093	Metabotropic Glutamate Receptor 1	NM_000838	gaattccctt acgaaggga ggggcaccac agcgggacca cgggctcctt ccccggcagg cgagatgtc gcccagagg gtccacacg cagtggatc cattaggagc tgacggccag cggtccagc gatcgcttat gagggttgtc caattggacc cgctttcaa cagcaacgct caaggctaga catgcccgc cagagatgaa gcagtctcca cacgaggaat acacctctg aaactatgtc tgggctgcag gaagcccatc atctggagag gaatctgcag aggagtgtc	acaaacgcct aggaggcgt tccgggagag gcgtgggaac ttgtttttt aaagtgttgc atcattggag aagtgtggg ttggataaga tctctgattt tccctcccc tctgtagcca tcagccaaa ccttctgaca tatgtctctg gagctggctg gtggagaaga gtgtgtgtct cttgccgtcg gtcattgaag gaggtcaggt cctgtgttcc gaaaatccca caggacagta aacatgcacc gacggcagca gaggtgtgtg tacactgaag aacattgatg	ccagcttgta ggtggaggag gcggcgctgg gcggctggca tcccagcgat tggcaggagc ccctcttctc agatcaggga tcaacgcgga gctggactct ccattcgaga caggcaggac ttcaagtgca gcacgcacct ctttgcaggc cagtcacac cccagggaag gctttgaccg gcttctgtga gttgatgaga gtggcgagtt gttatgaggt catttgatga ctgagttctg actttaaacg agatggggtt atgccctctg agctgctgga ttgatgaga ctaatcgcta attacaaaat	gagggcgctg gcaaaggcct gcgtcttggg ggctgtggac ctttttggag gtctctcag agtcctcac gcagtatggc cccggtctct ttcgttgggt tgagaaggat taagaagccc gaactgtctc gagctctctg actttgtaca aagggccatg ggaagggaat gcccattctg actcttgccg agcttgccag agcatgaca ctcactcatt ggaagtgtat ggaagccaac ttatttctg gcaacatcgg gtccagtgc aatctgcaca tgtcatcaat gtgggccctc cttcggccat aggagacgct cctggaaagt tgactatgtg cacgttgga ccagatgaac aagagtggag	agaggaggag ttgttggcga ggagcctgc tccccagaa ccagaatgga ccgagaaagt tggaggccat tcaccctggg catttgagtt ggatcaacc gtgtctgtcc tgatcggtcc acatccccca aatacttcc tcaaacgtta gcggaatgga acaaaatcta agaggcttcc tcctgagcgc gatgggcaga cgataaagct tggacactaa gccttccagg gcttagaaga ccatggcaca gcgatgccat tcattggagt atgatatac cctggcatga tgggtcggtc	Homo sapiens	

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Glutamate Receptor 1	3094	Metabotropic NM_000839	171																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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172	3094	Metabotropic NP_000830.1 Glutamate Receptor 2	aggtccgctt tgaccgcttt ggtgatggta ttggcgcgcta caacatcttc acctatctgc gtgcaggcag tggcgctctat cgtaccaga agtgaggcta ctgggcagaa gcttgactc tggacaccag cctcatccca tgggctctac agtgagcgg cccctggcc gctctcgct gcagtggacc ctgctctccag aatgaggtga agagtgtga gccgggcgaa gctgctgct ggctctgcat tccgtgccag cctatgagt accgattgga cgaattcact tgcgctgatt gtggcctggg ctactggccc aatgccagcc tgactggctg cttcgaactg cccagagat acatccgtg gggcgatgcc tgggctgtgg gacctgtcac catcgctgc ctgggtgccc tggccacct gtttgtgtg ggtgtctttg tgcggcaca tgccacacca gtggtcaagg cctcaggtcg ggagctctgc tacatctctg tgggtgtgtg cttcctctgc tactgcatga ccttcattct cattgccaag ccataccagg cagtgtgtac cttacggcgt cttggtttgg gcactgctt ctctgtctg tactcagccc tgctaccaa gaccaaccg attgcacgca tcttcgttg gggcgggag ggtgccagc ggtccagctt catcagctct gctcacagg tggccatctg cctggcactt atctcgggc agctgctcat agtggtcgcc tggctggtgg tggaggcacc gggcacaggc aaggagacag cccccgaac gcggtgagtg gtgacactgc gctgcaacca ccgcatgca agtatgttg gctcgtggc ctacaatgtg ctctcatcg cgctctgac gctttatgcc ttaatactc gcaagtggc cgaatactt aacgagcca agttcattgg cttcaccatg tacaccact gcatcatctg gctggcattg ttgcccact tctatgtcac ctccagtgac tacgggtac agaccaccac catgtgctg tcaagtacgc tcagcggctc cgtggtgctt ggtgctctt ttgcggcaa gctgcacatc atctcttcc agcgcagaa gaactggtt agccaccggg caccaccag cggctttggc agtgctgctg ccagggccag ctccagcctt ggccaagggt ctggctccc gttgtcccc actgtttgca atggccgtga ggtggtggac tgcacaactg catcgctttg a	Homo sapiens
173	3095	Metabotropic NM_000840 Glutamate Receptor 3	MGSLALLAL LPLWGAAG PAKKVLTLG DLVLGLFPV HQKGGPAEDC GPVNEHRGIQ P RLEAMLFALD RINRDPHLLP GVRLGAILD SCCKDTHALE QALDFVRASL SRGADGSRHI CPDGSYATHG DAPTAITGVI GGSYSVSIQ VANLLRLFQI PQISYASTSA KLSDKSRDYD FARTVPPDFF QAKAMAEILR FENWTYVSTE ASEG DYGETG IEAFELEARA RNICVATSEK VGRAMSRAAF EGVRALLQK PSARVAVLFT RSEDARELLA ASQRINASFT WVASDGMGAL ESVVAGSEGA AEGAITIELA SYPISDFASY FQSLDPWNS RNPWFREFWE QRFRCSEFRQ DCAHSLRAV PFEQESKIMF VVNAVYAMAH ALHNMHRALC PNTRLCDAM RPVNGRRLYK DFVLNVKFDA PFRPADTHNE VRFDREFDGI GRYNIFTYLR AGSGRYRYQK VGYWAEGLTL DTSLLPWASP SAGPLAASRC SEPCLQNEVK SVQPGEVCCW LCIPCPY EY RLDEFTCADC GLGYWPNASL TGCPELPQ EY IRWGDAWAVG PVTIACLGAL ATFLVLGVFV RHNATPVVKA SGREL CYILL GGVFLCYCMT FIFIAKPSTA VCTLRLRLGLG TAFSVCY SALS LTKTNRIARI FGGAREGAQR PRFISPASQV AICIALISGQ LLIVAVWL V EAPGTGKETA PERREVVTLR CNHRDASMLG SLAYNVLLIA LCTLYAFNTR KCPENFNEAK FIGFTMYTTC IIWLALLPIF YVTSSDYRVQ TTMVCVSVSL SGSVVLGCLF APKLHIILFQ PQKNVVSHRA PTSRFGSAAA RASSSLGQGS GSQFVPTVCN GREVVDSTTS SL cttttgtctc gcatgaggag gaccaacctt gaccagagc ccgggtgtag gctcacccgc A gccgctgcca ccgctgtag cttcagttcc tgccaggagt tgcggtgag aggaatttg tgacaggctc tgttagtctg ttcctccctt attgaaaga caggccaaag atccagttg gaaatgagag aggactagca tgacacattg gctccacctt tgatatctcc cagaggtaca	Homo sapiens

gaaacaggat tcatgaagat gttgacaaga ctgcaagttc ttaccttagc ttgtttttc
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174	3095	Metabotropic NP_000831.1 Glutamate Receptor 3	tggttggttg caccacaggt tcacatcatc ctgtttcaac ccagagaaga tggtgtcaca cacagactgc acctcaacag gttcagtgct agtggactg ggaccacata ctctcagtc tctgcaagca cgtatgtgcc aacggtgtgc aatggcgagg aagtcctcga tccaccacc tcactctgtg gattgtgaat tgcagttcag tctgtgtgtt tttagactgt tagacaaaa tgctcacgtg cagctccaga atatggaaac agagcaaaa agaaccccta gtaccttttt ttagaaacag tacgataaat tatttttag gactgtatat agtcatgtgc tagaactttc taggctgagt ctagtcccc tattattaac aattcccca gaacatggaa ataaccattg tttacagagc tgcagcattg tgcaggggtc tgacatgggt agtctactaa aaaaaaaa aaaaaaaaaa aaaaaaaa acaaaagaaa aaaataaaaa tacgggtgga atattatgta accttttttc ctatgaagtt tttgtaggt cttgtgtgta actaatattg gatgagtttc tatgttgtat attaaagtta cattatgtg aacagatga tttctcagc acaaaataaa aagcatctgt attaatgtaa agatactgag aataaaact tcaagggtttt MLTRLQVITL ALFSKGFLS LGDHNFLRRE IKIEGLVLG GLFPINEKGT GTEECGRINE P DRGIQRLAM LFAIDEINKD DYLLPGVKLG VHILDTCSR DTYALEQSLEF VRASITKVDE AEYMC PDGSY AIQENIPLLI AGVIGGSYSS VSIQVANLLR LFQIPQISYA STSAKLSDKS RYDYFARTVP PDFYQAKAMA EILREFNWTY VSTVASEGDY GETGIEAFEQ EARLNICIA TAEKVGRSNI RKSYSVIRE LLQKPNARVV VLFMRSDDSR ELIAAASRAN ASFTWVASDG WGAQESIIG SEHVAYGAI LELASQPVQ FDRYFQSLNP YNNHRNPWR DFWEQKFQCS LQNKRNHRRV CDKHLAIDSS NYEQSKIMF VVNAVAMAH ALHKMQRITC PNTTKLCDAM KILDGKLYK DYLLKINFTA PFNPKNDADS IVKFDTFGD MGRYNVFNQ NVGKYSYLK VGHWAETLSL DVNSIHSRN SVPTSQCSDP CAPNEMKMQ PGDVCCWICI PCEPYEYIAD EFTCMDCSG QWPTADLTGC YDLPEDYIRW EDAWAIGPVT IACLGFMCTC MVTVFIKHN NTPLVKASGR ELCYILLFV GLSYCMTFFF IAKPSVICA LRRGLGSSF AICYSALLTK TNCIARIFDG VNKAQRPKF ISPSSQVFIC LGLILVQVM VSWLILEAP GTRTYLAEK RETVILKCNV KDSSMLISLT YDVLIVILCT VYAFKTRKCP ENFNEAKFIG FTMVYTCIIW LAFLPIFYVT SSDYRVQTTT MCISVSLSGF VVLGCLFAPK VHILFQPKQ NVVTHRLHLN RFSVSGTGTT YSQSSASTYV PTVCNGREVL DSTTSSL	Homo sapiens
175	3096	Metabotropic NM_000841 Glutamate Receptor 4	ccagatgaca agagggtgg agagggtagc agcatgggct acgcggttgg ctgacctcag A tccccctgct gctgaagctg cctgccccat gccaccacag gccgtggggc caggggcctg ccagggttag gagtgggctt gccgttcctg ggtctctagg gatttccgag atgcttgga agagaggctt gggctggtg tgggcccggc tgcccccttg cctgctctc agcctttacg gccccctgat gccttctcc ctgggaaagc ccaaaaggcca cctcacatg aattccatcc gcatagatgg ggcatacaca ctgggaggcc tgttcccggt gcattggccgg ggcacagagg gcaagccctg tggagaactt aagaaggaaa agggcatcca ccggtggag gccatgctgt tcgccccgga tcgcatcaac aacgaccccg acctgctgcc taacatcacg ctgggcccgc gcattctgga cacctgctcc agggacaccc atgcccctga gcagtgcgtg accttgtgc aggcgtctcat ccagaaaggt ggacagagg tccgcttggc cagtggcggc ccaccatca tcaccaagcc tgaacgtgtg gtgggtgtca tccgtgcttc agggagctcg gtctccatca tggtggccaa catccttcgc ctcttcaaga taccacagc cagctacgcc tccacagcgc cagacctgag tgacaacagc cgctacgact tcttctccc cgtggtgccc tcggacacgt accaggccca ggccatgggtg gacatgctcc gtgacctca gtgtccacag	Homo sapiens

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176 3096 Metabotropic NP_000832.1 Homo sapiens
 Glutamate Receptor 4

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177 3097 Metabotropic NM_000842 Homo sapiens
 Glutamate Receptor 5

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181.	3099	Metabotropic NM_000844 Glutamate Receptor 7	<p> MARPRAREP LLVALLPLAW LAQAGLARA GSVRLAGGLT LGGLFPVHAR GAAGRACGPL P KKEQVHRLE AMLYALDRN ADPELLPGVR LGARLLDPCS RDTYALEQAL SFVQALIRGR GDGDEVGRC PGGVPLRPA PPERVAVVG ASASSVIMV ANVRLFAIP QISYASTAPE LSDSTRYDF SRVPPDSYQ AQAMVDIVRA LGWNYVSTLA SEGNYGESV EAFVQISREA GGVCIAQSIK IPREPKEGFE SKVIRRLMET PNARGIIFA NEDDIRRVLE AARQANLTGH FLWVGSWSG AKTSPILSLE DVAVGAITIL PKRASIDGFD QYFMTSRLEN NRRNIWFAEF WEENFNCKLT SSGTQSDST RKCTGEERIG RDTYEQEGK VQFVIDAVYA IAHALHSMHQ ALCPGHTGLC PAMEPTDGRM LLQYIRAVRF NGSAGTPVMF NENGDAAGRY DIFQYQATNG SASSGGYQAV GQWAEITRLD VEALQWSGDP HEVPSSLSCL PCGPGERKKM VKGVPCWHC EACDGYRFQV DEFTCEACPG DMRTPNHTG CRPTPVVRLS WSSPWAAPPL LLAVLGIVAT TTVVATFVRY NNTPIVRASG RELSYVLLTG IFLIYAITFL MVAEPGAAVC AARLFLGLG TTLSYSALLT KTNRIYRIFE QGKRSVTPPP FISPTSQLVI TFSLTSLQVV GMTAWLGARP PHSVIDYEEQ RTVDPEQARG VLKCDMSDL LIGCLGSLL LMVTCVYAI KARGVPETFN EAKPIGFTMY TTCIIWLAFV PIFFGTAQSA EKIYIQTTTL TVSLSLASV SLGMLYVPKT YVTLFHEQN VQKRKRLKA TSTVAAPPKG EDAEAHK gaattcccaa caccagcta attttgtat ttttagtaga gattgggttt caccatgttg A gccaggatgg tctccatctc ttgacctcg gcttggtctc caaaagtgtc gggattacag gcatgatgca ccatatccag ccaactcag tcattcttat ggggcaaca cttggtctgaa cccaggttt ctaagatac aaacctagg gcaacacca gatttcta ggaataggca cctggctgac tccaggcatt ctaataatag agacacctg gcgaactcag </p>	Homo sapiens

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cattacagat ctccaaatca ttgtctcctt ggatatagc attcttctca tggtcacatg

182	3099	Metabotropic Glutamate Receptor 7	NP_000835.1	<p>tactgtgtat gccatcaaga ctoggggtgt accgagaaat tttaacgaag ccaagcccat tgattcaat atgtacacga catgtatagt atggcttgc ttcatccaa tttttttgg caccgctcaa tcagcggaag agctctacat aaaaactacc acgcttaca tctccatgaa cctaagtga tcagtgcgc tgggatgct atacatgct aagtgtaca tcatcatttt ccaccctgaa ctcaatgtcc agaaacggaa gcgaagcttc aagcggtag tcacagcagc caccatgtca tcgaggctgt cacacaaacc cagtacaga cccaacgtg agcacaagac cgagctctgt gaaaacgtag acccaaacag ccctgctgca aaaaagaagt atgtcagtta taataacctg gttatctaac ctgttccatt ccatggaacc atggaggagg aagacctca gttattttgt caccacacct ggcataggac tctttgttc taccgcttc ccatcaccgg aggagcttcc ccggccggga gaccagtgtt agaggatcca agcgacctaa acagctgctt tatgaaatat ccttacttta tctgggctta ataagtcact gacatcagca ctgccaaact ggctgcaatt gtggaccttc cctaccacaa ggagtgtga aactcaagtc cgcgccggc tctttagaat ggaccactga gaccacacag accgttttgg ggctgacctg tcttattacg tatgtacttc taggttgcaa ggttttgaaa ttttctgtac agtttgtgag gacctttgca ctttgccatc tgatgtcgta cctcggttca ctgtttgtt tcgaatgcct tgtttcata gagccctatt ctctcagacg gtggaatatt tggaaaaatt ttaaaacaat taaaatttta aagcaatctt ggcagactaa aacaagtaca tctgtacatg actgtataat tacgattata gtaccactgc acatcatggt tttttttttt aagacaaaaa agatgtttta agacaaaaa ctgtgctgag aagtatgct ccacctatct ttggtatatg ataggttaca taaaagggaag gtattggctg aactgaatag aggtcttgat ctttggatg catgccagta atgtatttta cagtacatgt ttattatgtt caatatttgt atttgttct tctttgtta ttttaatta gggtatatga atattttgca ataattttta taattattaa gctgtttgaa ggaagaata tggatttttc atgtcttgag gttttgttca tgccccctt gactgatcag tgtgataagg actttaggaa aaaaagcatg tatgtttttt actgtttgt ataagtactt tegttaactt tgctgcttat gtgccaattt agtggaataa acaaacctt gctgaaaaat tccctcttcc cattctctt caattctgtg atattgtcca agaattgata aataaggaaat tc</p>	Homo sapiens
				<p>MGVLRKLLRV LTLKFPCCV LEVLLCALAA AARGQEMVAP HSIRIEGDTV LGGLFPVHAK P GPSGVPCGDI KRENGIHRLE AMLYALDQIN SDPNLLPNVT LGARILDTCR RDTYALEQSL TFVQALIQKD TSDVRCNNGE PPVFKPEKV VGVIGASGSS VSIMVANILR LFQIPQISYA STAPELSDDR RYDFFSRVVP PDSFQAQAMV DIVKALGWNV VSTLASEGSY GEKGVESFTQ ISKEAGGLCI AQSVRIPQER KDRITDFDRI IKQLLDTFNS RAWIFANDE DIKQILAAAK RADQVGHFLW VGSDSWGSKI NPLQHEDIA EGATIQPKR ATVEGFDAYF TSRTLENNRR NVWFAEYWEF NFNCKLTISG SKKEDTRKC TGQERIGKDS NYEQEGKVQF VIDAVYAMAH ALHHMNKDLG ADYRGVCPPEM EQAGGKKLLK YIRNVNFGS AGTPVMENKN GDAPGRYDIF QYQTTNTSNP GYRLIGQWTD ELQINIEDMQ WKGVREIPA SVCTLPCKPG QRKKTQKGTG CCWTCEPCDG YQYQFDEMTQ QHCPYDQRPN ENRTGCQDIP IIKLEWHSPW AVIPVFLAML GIATIFVMA TFIRYNDTPI VRASGRELSY VLLTGIFLCY IITFLMIAPK DVAVCSFRV FLGLMCISY AALLTKTNRI YRIFEQKKK VTAPLRISPT SQLAITSLI SVQLLGVFIW FGVDPNIIII DYDEHKTMNP EQARGVLKCD ITDLQITCSL GSYILLMVTG TVYAIKTRGV PENFNEAKPI GFTMYTTTCIV WLAFPIFFG TAQSAEKLYI QTTTLTISMN LSASVALGML YMPKVYIIF HPENLVQKRK RSKAVVTAA TMSSRLSHKP SDRPNGEAKT ELCENVDPNS</p>	

183	3100	Metabotropic NM_000845 Glutamate Receptor 8	PAKKKYVS NNLVI	Homo sapiens
			tgctgtgttg caagaataaa ctttgggtct tgattgcaa taccacctgt ggagaaatg A	
			gtatgcgagg gaaagcgatc agcctcttgc ccttgtttct tctcttgac cgccaagtct	
			tactggatcc tcacaatgat gcaagaact cacagccagg agtatgcca ttccatacgg	
			gtggatgggg acattatttt ggggggtctc ttcccttgc acgcaaaagg agagagggg	
			gtgcttctgt gggagctgaa gaaggaaaaa gggattcaca gactggaggc catgctttat	
			gcaattgacc agattaacaa ggacctgat cctcttcca acatcactct ggtgtccgc	
			atcctcgaca cgtgctctag ggacacctat ctttggagc agtctctaac attcgtgcag	
			gcattaatag agaaagatgc ttccgatgtg aagtgtgcta atggagatcc accattttc	
			accaagcccg acaagatttc tggcgtcata ggtgctgcag caagctccgt gtccatcatg	
			gttgctaaca tttaagact tttaagata cctcaaatca gctatgcac cacagcccca	
			gagctaagtg ataacaccag gtatgacttt ttctctcgag tggttccgcc tgactcctac	
			caagcccaag ccatggtgga catcgtgaca gcaatggat ggaattatgt ttcgacactg	
			gcttctgagg ggaactatgg tgagagcgggt gtggagggct tcacccagat ctcgagggag	
			attggtgggt ttgcatctgc tcagtccag aaatccccc gtgaaccaa acctggagaa	
			tttgaaaaaa ttatcaaacg cctgctagaa acacctaag ctcgagcagt gattatgttt	
			gccaatgagg atgacatcag gagtatattg gaagcagcaa aaaaactaaa ccaaagtggg	
			cattttctct gatttggctc agatagttgg ggaatccaaa tagcacctgt ctatcagcaa	
			gaggagattg cagaaggggc tgtgacaatt ttgcccacaa gagcatcaat tgatggattt	
			gacgatact ttagaagccg aactcttggc aataatcgaa gaaatgtgtg gtttcagaa	
			ttctgggagg agaattttgg ctgcaagtta ggaacacatg ggaagaggaa cagtcataa	
			aagaaatgca cagggtctga gcgaattgct cgggattcat cttatgaaca ggaaggaaa	
			gtccaaattg taattgatgc tgtatatctc atggcttac ccctgcacaa tatgcacaaa	
			gatctctgcc ctggatacat tggcctttgt ccacgaatga gtaccattga tgggaagag	
			ctacttgggt atattcgggc tgaataattt aatggcagtg ctggcactcc tgtcactttt	
			aatgaaaaac gagatgctcc tggacgttat gatatcttc agtatcaaat aaccaacaaa	
			agcacagagt acaagtcac cggccactgg accaatcag ttcatctaaa agtgaagac	
			atgcagtggt ctcatagaga acatactcac ccggcgtctg tctgcagcct gccgtgtaag	
			ccaggggaga ggaagaaaac ggtgaaagggt gtcccttggc tctgttgac ttgacctgt	
			gaaggttaca actaccaggt ggaatgagctg tcccttgaaac ttgacctct ggatcagaga	
			cccaacatga accgcacagg ctggcagctt atccccatca tcaaatgga gtggcattct	
			ccctgggctg tgggtcctgt gtttgttga atattggaa tcatcgccac cacctttgtg	
			atcgtgacct ttgtccgcta taatgacaca cctatcgtga gggcttcagg acggaactt	
			agttacgtgc tctaacggg gatttttctc tgttattcaa tcacgttttt aatgattgca	
			gcaccagata caatcatatg ctccctccga cgggtcttcc taggacttgg catgtgtttc	
			agctatgcag cccttctgac caaaacaaac cgtatccacc gaattattga gcaggggaa	
			aaatctgtca cagcgcacaa gttcattagt ccagcatctc agctgggtgat caccttcagc	
			ctcatctccg tccagctcct tggagtgttt gtctgttttg ttgtggatcc cccacacac	
			atcattgact atggagagca gcggacacta gtccagaga aggccagggg agtgcctaaa	
			tttgacattt ctgatctctc actcatttgt tcaatttgtt acagtatcct ctgtatgggt	

184	3100	Metabotropic NP_000836.1 Glutamate Receptor 8	actgtgactg tttatgcaa taaacgaga ggtgtccag agactttcaa tgaagccaaa cctattggat ttaccatgta taccactgc atcatttggg tagctttcat ccccatcttt tttggtacag ccagtcagc agaaagatg tacatccaga caacaacact tactgtctcc atgagtttaa gtgttcagt atctctggc atgtctata tgcccaagg ttatatata atctttcatc cagaacagaa tgttcaaaaa cgcaagga gcttcaaggc tttgtgaca gctgccacca tgcaaaagcaa actgatccaa aaaggaagt acagaccaa tggcgagggtg aaaagtgaac tctgtgagag tcttgaacc aacacttct ctaccaagac aacatatatc agttacagca atcattcaat ctgaacagg gaaatggcac aatctgaaga gactgtgtat atgatcttaa atgatgaaca tgagaccgca aaaaatcact cctggagatc tccgtagact acaatcaatc aaatcaatag tcagtcttgt aggaacaaa aattagccat gagccaaaag tatcaataaa cggggagtga agaaacccgt ttatataaat aaacccaat agtgtcaagc taaagtattg cttattcatg agcagttaa acaaatcaca aaaggaacac taatgttagc tcgtgaaaaa aatgctgttg aataataaa tgtctgagt tattcttga ttttctgtg attgtgagaa ctcccgcttc tgtccacat tgtttaact gtataagaca atgagctctgt ttcttgtaat ggctgaccag attgaagccc tgggttgctg taaaaataa tgcaatgatt gatgatgca atttttata caataattt atttctaata ataaaggaat gtttgcata aaaaaaaaa aaaaactcga g	Homo sapiens
185	3212	Opioid mu- type Receptor	ggaattccgg ctataggcag aggagaatgt cagatgctca gctcggtccc ctccgctga A cgctcctctc tgtctcagcc aggactgggt tctgtaagaa acagcaggag ctgtggcagc ggcgaagga agcggctgag gcgcttgga cccgaagat ctcggtgctc ctggctacct gcacagcgg tgcgcgcgc gcgctcagta ccatggacag cagcgtgccc cccacgaacg ccagcaattg cactgatgcc ttggcgtagt caagtgtct cccagcacc acccccggtt cctgggtcaa ctgtccccc tagatggca acctgtcga cccatgcggt ccgaaccgca ccaacctggg cgggagagac agcctgtgcc ctccgaccgg cagtcctcc atgatcacgg ccatcacgat catggccctc tactccatcg tbtgctgtgt ggggctcttc ggaacttcc	Homo sapiens

Accession	Gene	Protein	Species	Sequence
186	3212	Opioid mu-type Receptor	Homo sapiens	<p>MDSSAAPTNA SNCTDALAYS SCSPPSPGCS WVNLSHLN LSPDCGNRT NLGRDLSLCP P</p> <p>PTGSPSMITA ITIMALYSIV CWVGLFGNFI VMVIVIRYTK MKTATNIYIF NLALADALAT</p> <p>STLFPQSVNY LMGTPWPGTI LCKIVISIDY YNMFTSIFTL CTMSVDRIYA VCHPVKALDF</p> <p>RTPRNRKIIN VCNWILSSAI GLPVMFMATT KYRQGSIDCT LTFSHPTWYW ENLVKICVFI</p> <p>FAFIMPVLII TVCYGLMILR LKSVRMLSGS KEKDRNLRII TRMVLVVAV FIVCWTFPIHI</p> <p>YVVIKALVTI PETTFQIVSW HFICIALGYTN SCLNPVLYAF LDENFKRCFR EFCIPSSNI</p> <p>EQQNSTRIQ NTRDHPSTAN TVDRTNHQLE NLEAETAPLP</p> <p>atgaacactt cagccccacc tgctgtcagc cccaacatca ccgtccctggc accagaaaag A</p> <p>ggctccctggc aagtggcctt cattgggattc accacggcc cctctgtcgt agccacagt</p> <p>acagggcaacc tgctgggtact catctcttc aaggtcaaca cggagctcaa gacagtcaat</p> <p>aactactcc tgctgagctt ggcctgtgct gacctatca tcggtagctt cccatgaac</p> <p>ctctatacca cgtacctgct catggggccac tgggctctgg gcacgtggc ttgtgacctc</p>
187	3223	Muscarinic acetylcholine Receptor M1	Homo sapiens	<p>NP_000905.1</p>

188	3223	Muscarinic acetylcholin e Receptor M1	NP_000729.1	<p> tga tggctggccc tggactatgt ggccagcaat gctcogtca tgaatctgt gctcatcagc tttgaccgt acttctcgt gactcgccc ctgagctacc gtgccaagcg cacacccgc cggcagctc tgatgatcg cctggcctgg ctggtttctt ttgtgctctg ggcccagcc atcctctctt ggcagtaact ggtagggag cggacgatgc tagctggga gtgctacatc cagttctctt ccagcccat catcaccttt ggcacagcca tggctgectt ctactccct gtcacagtca tgtcacgct ctactggcg ctccgagac agacagaaa ccgagcacgg gagctggcag cccttcaggg ctccgagac ccaggcaaa ggggtggcag cagcagcagc tcagagaggt ctacagccagg ggtgagggc tcaccagaga cctctccagg ccgtgctgt cgctgctgcc gggcccccag gctgctgag gctacagct ggaaggaga agaggaaag gacgaaggct ccatggagtc cctcacatcc tcagagggag aggagcctgg ctccgaagt gtgatcaaga tgccaatggt ggaccccgag gcacaggccc ccaccaagca gcccacagg agctcccaa atacagtcaa gaggccgact aagaaagggc gtgatcgagc tggcaagggc cagaagcccc gtggaagga gcaagtggc aagcgaaga ccttctcgt ggtcaaggag aagaaggcgg ctcgaccct gactggcctc ctctggcct tcactctac ctggacaccg tacaacatca tggctgctgt gtccaccttc tgcaaggact gtgtccoga gacctgtgg gagctgggct actggctgtg ctactcaac agcacatca acccctgtg ctacgcactc tgcaacaaag ccttcggga cacttctgc ctgctgctgc ttgcccgtg ggaagaaga cgctggcgca agatccccc agccctggc tccgtgcacc gactccctc ccgccaatgc tga </p>	Homo sapiens
189	3224	Muscarinic acetylcholin e Receptor M2	NM_000739	<p> atgaataact caacaaactc ctctaacaat agcctggctc ttacaagtcc ttataagaca A tttgaagtgg tgtttattgt cctgggtggc ggtacccctca gtttggtag cattatcggg aacatcctag tcatggtttc cattaaagtc aaccgccacc tccagaccgt caacaattac ttttattca gcttggcctg tgctgacctt atcatagggtg ttcttccat gaacttgtag acctctaca ctgtgattgg ttactggcct ttgggacctg tgggtgtga ccttggcta gacctggact atgtggtcag caatgcctca gttatgaatc tgcctcatc cagctttgac agtaacttct gtgtcacaaa acctctgacc taccagtc aagcggaccac aaaaatggca ggtatgatga ttgcagctgc ctgggtcctc tctttcatcc tctgggctcc agccattctc ttctggcagt tcatgttagg ggtgagaact gtggagatg gggagtgcta cattcagttt ttttccaatg ctgtgtcac ctttggtagc gctattgacg ccttctattt gccagtgtc atcatgactg tgctatatg gcacatatcc cgagccagca agacaggat aaagaaggac aagaaggagc ctgttgccaa ccaagacccc gtttctcaa gtctggtaga aggaaggata gtgaagccaa acaataacaa catgccagc agtgacgatg gcctggagca caacaaatc cagaatggca aagccccag ggtcctgtg actgaaact gtgtcagg agaggagaag </p>	Homo sapiens

190	3224	Muscarinic acetylcholin e Receptor M2	NP_000730.1	<p>gagagctcca atgactccac ctacagtcagt gctgttgccct ctaatatgag agatgatgaa ataaccagg atgaaaacac agtttccact tccctgggcc attccaaaga tgagaactct aagcaaacat gcatcagaat tggcaccaag accccaaaaa gtgactcatg taccacaact aataccaccg tggaggtagt ggggtcttca ggtcagaatg gagatgaaaa gcagaatatt tgagcccgca agattgtgaa gatgactaag cagctgcaaa aaaagaagcc tctccttcc cgggaaaaaaga agtccaccag gacaatcttg gctattctgt tggctttcat catcacttgg gccccataca atgtcatggt gctcattaac acctttgtg caccttgcat ccccaacact gtgtggacaa ttggttactg gctttgttac atcaacagca cstatcaacc tgctgtctat gcactttgca atgccacctt caagaagacc ttttaaacacc ttctcatgtg tcattataag aacataggcg ctacaaggta a</p>	Homo sapiens
191	3226	Muscarinic acetylcholin e Receptor M4	LG1143	<p>FEWVFIVLVA GSLSLVTIIG NILVMVSIKV NRHLQTVNNY P FLFSLACADL IIGVFSMNLV TLYTVIGYWP LGPVVCDLWL ALDYVVSNAS VMNLLIISFD RYFCVTKPLT YPVKRTTKMA GMMIAAAWVL SFILWAPAIL FWQFIVGVRT VEDGECYIQF FSNAAVTEGT AIAAFYLPVI IMTVLYWHIS RASKSRILKD KKEPVANQDP VPSILVQGR1 VKPNNNMPS SDDGLEHNI QNGKAPRDPV TENCVQGEK ESSNDSTSVS AVASNMRRDE ITQDENTVST SLGHSKDENS KQTCIRIGTK TPKSDSCTPT NTTVEVVGSS GQNGDEKQNI VARKIVMTK QPAKKKPPPS REKKVTRTIL AILAFIITW APYNVMVLIN TFCAPCIPNT VWTIGYWLKY INSTINPACY ALCNATFKKT FKHLMLCHYK NIGATR CCTGGCAGTG CCGATGTTCC GATACTGGCA CAGCAGCAGG TGCCGGAAGG TCTTTTAAA A GGTGCGGTG CACAGAGCAT AGCAGGCAGG GTTGATGGTG CTGTTGACGT AGCAGAGCCA GTAGCCAATG GACCACACCG GGTCAAGGAT CAGAAGGTGT TCACCAAGGAC CATGACGTTG TGAGGCGTCC CCGTGAGGAT GAAAGCTAAC ANAATGGCAA AGATCGGTGG TGGCACGTTG CGCTCCCGGG CCGCATCTG CCGCTCTCTG CGCACCTGGG TCGGAGCGAT GCTAGCGAAC TTGCGGGCCA CGTTGGCCCG AGGCGGCATGC CAGNCGGCGT GGGAGGGACA ATCTCAGGGC TGGCACACAC TCATGGGCTG GCTGGGCTTG TCAAATTTTG GATCTTGGAC CATCTGGGAG GCTTGGTTGA AGGCCCCCGG CTCGGACTTG CGGGCATGAA TCCAGGCCTT ACTCTANAGG ATCCCCCCTT CTCC</p>	Homo sapiens
192	3226	Muscarinic acetylcholin e Receptor M4	NM_000741	<p>atggccaact tcacacctgt caatggcagc tcgggcaatc agtccgtgcg cctggtcacg A tcatcatccc acaatcgcta tgagacggtg gaaatggtct tcattgccac agtgacaggc tccctgagcc tggtagctgt cgtgggcaac atcttggtga tgctgtccat caaggtcaac aggcagctgc agacagtcaa caactacttc ctcttcagcc tggcgtgtgc tgatctcatc ataggcgcct tctccatgaa cctctacacc gtgtacatca tcaagggtga ctggccccctg ggcgccgtgg tctgcgacct gtggctggcc ctggaactacg tggtagagaa cgcctccgtc atgaaccttc tcatcataag ctttgaccgc tacttctgag tcaccaagcc tctcaactac cctgccccgc gcaccaccaa gatggcagc ctcattgattg ctgctgcctg ggtactgtcc ttcgtgctct gggcgccctgc catcttgttc tggcagtttg tggtaggtgaa gcggacggtg cccgacaacc actgcttcac ccagttccctg tccaacccag cagtgaacct tggcacagcc attgctgcct tctacctgcc tgtggtcatc atgacgggtgc tgtacatcca catctccctg gccagtcgca gccgagtcga caagcacccg ccgagggggc cgaaggagaa gaaagccaa acgtggcct tctcaagag cccactaatg aagcagagcg tcaagaagcc cgcggcgga ggcgccccgg gaggactgcg caatggcaag ctggaggagg ccccccgcc agcgctgcca</p>	Homo sapiens

Homo
sapiens

P

Muscarinic
acetylcholin
e Receptor
M4

3226

193

ccgccaccgc gccccgtggc tgataaggac: acttccaatg agtccagctc aggcagtgcc
 accagaaca ccaaggaacg cccagccaca gactgtcca ccacagaggc caccactccc
 gccatgcccg cccctccct gacgccggg gccctcaacc cagcctccag atggtccaaag
 atccagattg tgacgaagca gacaggcaat gactgtgtga cagccattga gattgtgcct
 gccacgccg ctggcatgg cccgtggcc acggtggccc agcatttgc cagcatcgct
 gcgaaccagg tgcgcaagaa gcggcagatg gcggcccggg agcgaaagt gacacgaacg
 atctttgcca ttctgctagc cttcatcctc acctgggacg cctacaaagt catggtcctg
 gtgaacacct tctgccagag ctgcatcctt gacacgtgtt ggtccattgg ctactggctc
 tgtactgtca acagaccat caaccctgcc tctatgtctc tgtgcaacgc cacttttaaa
 aagaccttcc ggcacctgct gctgtgccag tatcggaaca tcggcactgc caggtag
 MANFIPVNGS SGNQSVRLVT SSSHNRVETV EMVFIATVTG SLSLVTVVGN ILVMLSIVN P
 RQLQTVNNYF LFSLACADLI IGAFSMNLYT VYIKGYWPL GAVVCDLWLA LDYVVSNASV
 MNLIISFDR YFCVTKPLTY PARRTTKMAG LMTAAAWLS FVLWAPAILF WQFVVGKRTV
 PDNHCFLQFL SNPAVTFGTA IAAFYLPVVI MTLVLIHISL ASRSRVHKHR PEGPKEKKAK
 TLAFKSPIM KQSVKKPRPG GRPGGLRNGK LEEAPPALP PPRPVADKD TSNESSSGSA
 TQNTKERPAT ELSTTEATP AMPAPPLOPR ALNPASRWSK IQIVTKQTGN ECVTAIEIVP
 ATPAGMRPAA NVARKEFASIA RNQVRKKRQM AARERKVTRT IFAILLAFIL TWTPYNNMVL
 VNTFCQSCIP DTVWSIGYWL CYVNSTINPA CYALCNATFK KTFRHLILCO YRNIGTAR
 atggaagggg attcttacca caatgcaacc accgtcaatg gcacccacgt aaatcaccag A
 cctttggaac gccacagggt gtgggaagtc atccacattg cagctgtgac tgctgtggta
 agcctgatca ccaatgtggg caatgtcttg gtcattgatct ccttcaaatg caacagccag
 tcaagacag ttaacaacta ttacctgtc agcttagctt gtcagatctc catcattgga
 atcttctcca tgaacctcta caccacctac atctcattgg cagctgtggc tctcggggagt
 ctggtttgtg acctttggct tgcaactggac tacgtggcca gcaacgcttc tgtcatgaac
 ctctgtgtga tcagttttga ccgttacttt tccatcaaca gacccttgac atatcgggccc
 aagcgtactc cgaagaaggc tggcatcatg attggcttgg cctggctgat ctccttcac
 ctctggggccc cagcaatcct ctgctggcag tacttggttg ggaagcggac agttccactg
 gatgagtgcc agatccagtt tctctctgag cccaccatca cttttggcac tgccattgct
 gccttctaca tccctgttc tgtcatgacc atctctact gtcgaatcta ccgggaaca
 gagaagcgaa ccaaggacct ggctgacctc caggttcttg actctgtgac caaagctgag
 aagagaaagc cagctcatag ggctctgttc agatcctgct tgcgctgtcc tgcacccacc
 ctggccagc gggaaaggaa ccaggcctcc tggctatcct cccgcaggag cactccacc
 actgggaagc catcccaagc cactggccca agcgcgaatt gggccaaagc tgagcagctc
 accaactgta gcagctacc ttctcagag gatgaggaca agcccgccac tgacctgtc
 ctccaagtgg tctacaagag tcagggttaag gaaagccag ggaagaatt cagtgctgaa
 gagactgagg aaacttttgt gaaagctgaa actgaaaaa gtgactatga caccctaaac
 taccttctgt ctccagcagc tgtcataga cccaagagtc agaaatgtgt ggcctataag
 ttcgatttgg tggtaaaagc tgacgggaac cagagagcca caaatggctg tcacaaggtg
 aaaatcatgc cctgccccct cccagtgccc aaggaaacct caacgaaagg cctcaatccc
 aacccagcc atcaaatgac caaacgaaag agagtgttcc tagtcaaga gaggaagca
 gccagacac tgagtgcct tctcctggcc ttcattcatca catggacccc gtataacatc

Homo
sapiens

A

Muscarinic
Acetylcholin
e Receptor
M5

3227

194

195	3227	Muscarinic Acetylcholin e Receptor M5	NP_036257.1	MEGDSYHNAT LKTVMNYILL LLVISFDRYF DECQIQFLSE KRKPAHALF TTCSSYPSSE YLLSPAAHR NPSHQMTKRK YWLCYVNSTV	TVNGTPVNHQ SLACADLIIG SITRPLTYRA PTITFGTAIA RSCLCRPRET DEDKPATDPV PKSQKCVAYK RVVLVKERKA NPICYALCNR	PLERHRLWEV ILFNMNLYTTY KRTPKRAGIM ILYIYRVSVMT LAQERNQAS LQWVYKSQK FRLVVKADGN AQTLSAILLA TERKTFKMLL	ITIAAVTAV ILMGRWALGS IGLAWLISFI WSSRIYRET WSSRSQATST ESPGEFSAE QETNNGCHKV FIITWTPYNI LCRWKKKKVE	SLITIVGNVL LACDLWLALD LWAPAILCWQ EKRTKDLADL TGKPSQATGP ETEETFKAE KIMPCFPFVA MVLVSTFCDK EKLWQGNLSK	VMISFKVNSQ YVASNASVMN YLVGKRTVPL QGSDSVTKAE SANWAKAEQL TEKSDYDTPN KEPSTKGLNP CVPVTLWHLG LP	P	Homo sapiens
196	3378	Tachykinin Receptor 3	NM_001059	ctattgcagt gagcgacaga tcgggactg gggttgagg ccacggggc cctcccttc acctcacc gtgtgtggt acaaagcgc ccatggcgc ttggcgcaa tctactccat ccagactgtc tacttgctt gctttgtga tactgtgtga ctctctggg ccaaaagaa tgccctatca acatccagca ccatcatcta gggtgcctt atccaaaccg ttgaccccaa accaaagttt tcataagctc agattaggtg tgtcctatat	atctttcagc agaacttcag cagaccgtg cgtgggtgca agttgagact cgcgtggga ccagttcgtg ggcagtgga gagactgtc cttcaacacg ctactgcgc gacggccatt tgctacagca ccctcagtg atggccagaa ctgtttccca aggagaaatc ggtgtcaaa tatttacttc ggtctacctg ctgtgtctg catcaaatca gcaaagcagt cgatgcagac caatggctgc accctatacc gagaccatca accctctaga	ttccagtctt aggagtctcg gagatggcca gacgcgtga gggtggctgc ctgcctgtg cagccgtcct gttttggga acaaactact ttggtcaatt ttccagaact gggtggaca accaagattg ctttattcca gggtcccaac tggtcatca ccagagata atgatgatta attctcactg gctagctttt aataaaagat tccagctatg atgtacaccg accaccaggt cgatcgagga tctcgagga tctgtggatg tggtgccagt ccctctaga	atctgaaagc tcttgggctg ctctccagc acctgaccg aactgctgga cttccccgc ggcgcacgc gtctgtgctc catctggatc tccttctctat ggatatggc tcattggaag aaacccaaagt aacatttccac tggtattac cctgtgacaa ccagtgata tggtgtcat caatctatca ggctggcaat ttcgagctgg tgacagctag tgaccagaat ccagtcgga attccaaatc aatattctta ctagggaccc aattttagg	cccgccacca cccgtgggtg agcagaaacc ctcgtagct ccaagctggc gccctcccag gctctgtgctc catctggatc ccttggttcc gcttcatagc cacagctgtg tattattgat tatttgatt catgccaggc ttaccatatt atacaccatt gtatcattag gtatcattag gacatttgc acaactaat gagctcaacc cttcaagaga gctcaagacc ggagtcctatg gaaaagagca tgccctccgc acttcaagtt atccatttcc ttatccattc cagctatggt caaattgaga	A	Homo sapiens	

197	3378	Tachykinin Receptor 3	NP_001050.1	aaggtagtgt ataatgtga caaagacact aataacatgt tagcctccac ccaaaataaa atgggcttta aattt MATLPAETW IDGGGGVGAD AVNLTASLAA GAATGAVETG WLQLLDQAGN LSSSPSALGL P PVASAPSQP WANLTNQFVQ PSWRIALWSL AYGVVAVAV LGNLIVII LAHKRMRTVT NYFLVNLAFS DASMAFNTL VNFYALHSE WYFGANYCRF QNFFPITAVE ASIYSMTAIA VDYMAIDP LKRLSATAT KIVIGSIWIL AFLAEPQCL YSKTKVMPGR TLCFVQWPEG PKQHYTHII VIILVYCFPL LIMGITYTIV GITLWGEIP GDTCDKYHEQ LKAKRKVVKM MIIIVMTFAJ CWLPYHIYFI LTAIYQQLNR WKYIQQVYLA SFWLAMSSTM YNPIIYCCLN KRFRAGFKRA FRWCPFIKVS SYDELELKT RFHPNRQSSM YTVTRMESMT VVFDENDADT TRSRKKRAT PRDPSFNGCS RNSKSASAT SSFISPYTS VDEYS	Homo sapiens
198	3380	Neuromedin B Receptor	NM_002511	gtgctgtgag gcttgccgcg ggacagtaaa cttgcaggag cgagaggag ggacatcgat A taaacctaaa tcgtggcggt tcagtcctca gggcaccgag cgcgtgaaaa ctccagcggg ctctgctgga aaggagatca tgccctctaa gtctcttcc aacctctcg tgaccaccgg cgcaatgag agcggttccg tccccgagg gtggaaaagg gatttccgc cggcctcgga cgggaccacc acggagtgg tgatccgctg tgtgatccc tgctctacc tgctcatcat cacctgggc ttgctggga acatcatgct ggtgaagatc ttcatcaca acagcgccat gaggagcgtc ccaacatct tcatctctaa cctggcgcc ggggacttgc tgcgtgctgt cacctgcgtc cgggtggag cctgcgcta cttctcgac gagggtgagt ttggcaagg ggctggcaaa ctgattccctg tcattccagct cacttccgag ggggtttccg tgttcaactc cactgccc c agcggcaga ggtacagagc catcgttaac cccatggaca tgcagacgtc aggggcattg ctgcggacct gtgtgaaggc catgggtatc tgggtggctc cgtgtgtgt ggcagttccc gaagcgggtg tttagaagt ggtcgcatac agtagcttgg ataatagcag cttcacagca tgtatcccat accctcaaac agatgaatta catccaaaaga ttcattcagt gctcatttct ttggtctatt tctcatacc acttgctatt attagcattt attattatca tattgcaaa accttaatta aaagcgaca caatcttct ggagaataca atgaacatac caaaaacag atggaaacac ggaacgcct ggctaaatt gtgctgtct ttgtgggctg tttcatcttc tgtgtgttc caaacacat cctttacatg tatcggctct tcaactataa tgagattgat ccatctctag gccacatgat tgtcacctta gttgcccggg ttctcagttt tggcaattct tgtgtcaacc catttgctct ttacctactc agtgaaaagt tcaggaggca tttcaacagc caactctgct gtgggaggaa gtcctatcaa gagagaggaa ccagctacct actcagctct tcagcgtgct gtatgacatc tctgaaaagc aatgctaaga acatggtgac caattctggt ttactaaatg ggcacagcat gaagcaggaa atggcaatgt gattttggcc attcaactca ctacctggag agaacttagt aa MPSKSLSNLS VTTGANESG VPEGWERDFL PASDGTTEL VIRCVIPSLY LIITVGLLG P NIMLVKIFIT NSAMRVPNI FISNLAAGDL LLLTCTPVD ASRYFFDEWM FGKVGCKLIP VIQITSVGVG VFTLTALSAD RYRAIVNPMQ MQTSGALLRV FLIPLAISI YYTHIAKTLI FSEVARISL DNSSFTACIP YPQTDHLPK IHSVLIPLVY FLIPLAISI YYTHIAKTLI KSAHNLPGY NEHTKKQMET RKRLAKIVLV FVGCFTFCWF PNHILYMYS FNYNEIDPSL GHMIVTLVAR VLSFGNSCVN PFALYLLSES FRRHFNSQLC CGRKSQYERG TSYLLSSAV RMTSLKSNK NMVNTNSVLLN GHSMKQEMAM	Homo sapiens
199	3380	Neuromedin B Receptor	NP_002502.1	attcaactca ctacctggag agaacttagt aa MPSKSLSNLS VTTGANESG VPEGWERDFL PASDGTTEL VIRCVIPSLY LIITVGLLG P NIMLVKIFIT NSAMRVPNI FISNLAAGDL LLLTCTPVD ASRYFFDEWM FGKVGCKLIP VIQITSVGVG VFTLTALSAD RYRAIVNPMQ MQTSGALLRV FLIPLAISI YYTHIAKTLI FSEVARISL DNSSFTACIP YPQTDHLPK IHSVLIPLVY FLIPLAISI YYTHIAKTLI KSAHNLPGY NEHTKKQMET RKRLAKIVLV FVGCFTFCWF PNHILYMYS FNYNEIDPSL GHMIVTLVAR VLSFGNSCVN PFALYLLSES FRRHFNSQLC CGRKSQYERG TSYLLSSAV RMTSLKSNK NMVNTNSVLLN GHSMKQEMAM	Homo sapiens

200	3404	Neuropeptide Y Receptor Type 2	NM_000910	A	Homo sapiens
tatcctatcc	ctatcctagc	ttttaaacctg	agccagagct	cactacacag	gttcctggct
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cctctgggta	gggtctggct	gagcggtct	gcaagcccg	gagcggtcg	agagaccctg
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ctctatggct	ggatgaacag	caactacaga	aaggttttcc	tctcggcctt	ccgctgtgag
cagcgggttg	atgccattca	ctctgaggtg	tccgtgacat	tcaaggctaa	aaagaacctg
gaggtcagaa	agaacagtgg	ccccaatgac	tctttcacag	aggctaccaa	tgtctaaagg
agctgtggtg	tgaataatga	tggatgaatt	ctgacacag	ctatgaatct	ggttgatggc

201	3404	Neuropeptide Y Receptor Type 2	NP_000901.1	gpcagctctc	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gagagagaga	gag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202	3405	Neuropeptide Y Receptor Type 4	NM_005972	atgaacacct ctacacctct tggccttgctg ctcccaaat ctccacaagg tgaataacaga A agcaaacccc tgggcacccc atacaacttc tctgaacatt gccaggattc cgtggacgtg atggtcttca tctgcacttc ctacagcatt gagactgtcg tgggggtcct gggtaacctc tgctgatgt gtgtgactgt gaggcagaag gagaagaca acgtgacca cctgcttacc gcaacctgg ccttctctga ctctctcatg tgcctcctct gccagccgt gccgcccgtc tacaccatca tggactactg gatcttttga gatcctctct caagatgtc ggccttcact cagtgcagt cggtagcgt ctccatcttc tgcctcgtcc tgcgtggcct ggagaggcat cagctcatca tcaacccaac aggtggaag ccagcatct cacaggccta cctggggatt gtgctcatct ggttcattgc ctgtgtcttc tccctgcct tccctggcaa cagcatcctg gagaatgtct tccacaagaa ccaactccaa gctctggagt tccctggcaga taagggtggtc tgtaccgagt cctggccact ggctcaccac cgcacatct acaccactt cctgctcctc ttccagtagt gctcccaact ggcttctatc ctggtctgtt atgcacgcat ctaccggcgc ctgcagaggc aggggcccgt gtttcacaag ggcactaca gcttgcgagc tgggcacatg aagcaggta atgtgtgtct ggtgtgatg gtgtggcct ttgcccgtct ctggctgctc ctgcatgtgt tcaacagcct ggaagactgg caccatgagg ccatcccat ctggccacggg aacctcatct tcttagtgtg ccaattgctt gccatggcct ccacctgct caaccatctc atctatggct ttctcaacac caacttcaag aaggagatca agggcctggt gctgacttgc cagcagagcg ccccccgtga ggaagtcggag catctgccc tgtccacagt acatacggaa gtctccaaag ggtccctgag gctaagtggc aggtccaatc ccatttaa MNTSHLLALL LPKSPQGENR SKPLGTPYNF SEHCQSDVDV MVFIVTSYSI ETVVGLGNL P CLMCVTVRQK EKANVTNLLI ANLAFSDFLM CLLCQPLTAV VTIMDYWIFG ETLCKMSAFI QCMSVTVSIL SLVLVALERH QLIINPTGWK PSISQAYLGI VLIWVIACVL SLPLFLANSIL ENVFHNHSHK ALEFLADKVV CTESWPLAHH RTIYTTFLLI FQYCLPLGFI LVCYARIYRR LQROGRVFHK GTYSLRAGHM KQNVVLVVM VFAFLVWLP LHVFNLSLEW HHEAIPICHG NLIFLVCHLL AMASTCVNPF IYGFINTNFK KEIKALVLTC QQSAPLEESE HPLISTVHTE VSKGSLRLSG RSNPI	Homo sapiens
203	3405	Neuropeptide Y Receptor Type 4	NP_005963.1	gaaaggctat cggtaacaac tgacctgcca caaagttaga agaaaggatt gattcaagaa A agactataat atggatttag agctcgacga gtattataac aagacacttg ccacagagaa taatactgct gccactcgga attctgattt cccagctctgg gatgactata aaagcagtggt agatgactta cagtattttc tgattgggct ctatacattt gtaagtcttc ttggctttat ggggaatcta cttattttta tggctctcat gaaaagcgt aatcagaaga ctacggtaaa cttccatcata ggcaatctgg cctttctga tatcttggtt gtgctgtttt gctcaccttt cacactgacg tctgtcttgc tggatcagtg gatgtttggc aaagtcatgt gccatattat gccttttctt caatgtgtgt cagttttggt ttcaacttta attttaatat caattgccc tgtcagggtat catatgataa aacatcccat atctaataat ttaacagcaa accatggcta ctttctgata gctactgtct ggacactagg ttttgccatc tgttctcccc tccagtggtt tcacagtctt gtggaacttc aagaacatt tggttcagca ttgttgagca gcagggtattt atgtgttgag tcatggccat ctgattcata cagaattgcc ttactatct ctttattgct agttcagtat attctgccc tagtttgtct tactttaagt catacaagtg tctgcagaag tataagctgt ggattgtcca acaagaaaa cagacttga gaaaatgaga tgatcaactt aaactctcat ccatccaaa agagtggcc cctctgga cctctgga gccataaatg	Homo sapiens
204	3406	Neuropeptide Y Receptor Type 5	NM_006174		Homo sapiens

205 3406 Neuropeptide NP_006165.1
Y Receptor
Type 5 Homo sapiens

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QCVSVLVSTL ILISIAIVRY HMIKHPIINN LTANHGYFLI ATVWTLGFAI CSPLPVFHS
VELQETGSA LLSRYLCVE SWPSDSYRIA FTISLLVQY ILPLVCLTVS HTSVCRSISC
GLSNKENRLE ENEMINLTH PSKSGPOVK LSGSHKWSYS FIKKHRRYS KKTACVLPAP
ERPSQENHSR ILPENFGSVR SQLSSSSKFI PGVPTCFEIK PEENS DVHEL RVKRSVTRIK
KRSRSVFYRL TILILVFAVS WMPLHLFHV TDFNDNLISN RHFKLVCYC HLLGMMSCCL
NPILYGFLLN GIKADLVSLI HCLHM

206 3408 Neurotensin NM_002531
Receptor
Type 1 Homo sapiens

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gtgtgcggca aaaggcagtt tctttgttc tcagactaat ggtggttcc agagaaggaa
atgaaatgtg ctgggtggg ccgggctccc ggcgccccg ctgctgttcc catgtccaca
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tggtctcagg gtggggcctt gagaaggga atgtgggaca ggggcgatgg tgcctgtct
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tcttgaacc ccacaaaatc cctctccaa cagaggacc ttgggtctac caagaacggg
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gtctctgggg cggggtctgt ggtgtgact gaagtgggt tcccgttga tgtctgtg
ctcctatctg tgcactacc gtaggtaggg acagtgtcc atgcaccaca gacacacca

Homo
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209	3452	Opiate Receptor- Like 1 (OPRL1)	NP_000904.1	MEPLFPAPFW VCVGGLLGNC ALCKTVIALD VGVPVAIMGS RLRGVRLISG LRFTALGVV KTSETVPRPA	EVYIGSHLQG LVMYVILRHT YNNMFTSTFT AQVEDEEIEC SREKDRNLRR NLSCLNPILYA	NLSLLSPNHS KMKTATNIYI LTAMSVDRYV LVEIPTPDY ITRLVLWVA FLDENFKACF	LLPPLLILNA FNLALADTLV AICHPIRALD WGPVFAICIF VFVGCWTPVQ RKFCASALR	SHGAFPLPLGL LLTLPFQGT VRTSSKAQAV LFSFIVPVLV VFVLAQGLGV RDVQVSDRVR	KVTIVGLYLA ILLGFWPFGN NVAIWALASV ISVCYSILMIR QPSSETAVAI SIAXDVALAC	Homo sapiens
210	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NM_000273	atgacccagg atggccctcc gtgctgagct ttggcgctgg gcgacgtccc ggctgctgg agcgtctcgg atgtggatcc gcttatctgg gcgtggggcc gtgtccagg ccctgctgc gcctctttac gtgatcaaga atcatcaatg ttgaacactg gcccaggat cagctctcca caccatccc gggcagactt gaaattcaca	caggccggcg cgcgcttagg tcagccggcg gccttctgca cgccggcctc gtatggtgat atatgaacca agctgttgta tgatccggag tggccacct gtgagcggg tggttctcgt ttaaagggaag tccgattttt aaagcctttt tcagaaactg ttctctgtc ggaaggagat cactgatgac cactgatgac ctgacgaagc ctgcaagtga	gggtcctggc gacottctgc ggccttccac gtgctgccc ggcccgcc cggtccacc cacggaaatt cagtgccctg atcggcagga gctctgtgtg cctggaccac ggcgaacccc acaaggcatt caaaatcatg attctatctt agccaagacc tttgcccttc ccagtgggaa ccatgaaaac cctgcttccg cctgagcatg atcctgcaac	acaccggagc tgccccacgc gcgctctgcc ggccgcggc ctgcgcgctc gtgtggttag tggcctgctg ttctggtggc ctgagcacca ctgagcagga gagggagccg gcatcctcc cctggaccac ggcgaacccc atcctgttcc tacacggaga ctggttttaa gagatgcaaa acatggttta tacggcttga tcactgacca cctgcttccg ggaaggtgtc gttctgaaag aaaaatgagg	cgctcccg gggacgcagc tgggcagcgg cgcgggccc cgctgcctg gattcccaa ctttctgcgt tggtttgcta tcctgctgta ccatgctcta actatgtcac aaaagacagt acgagaggag acgagaggag ttatttgttg cagatatcaa ttaggggaat cagatgttct ttatgggaat cagatgtcga cctcggtctg ggaaggtgtc gttctgatgc gtgacccctg	aacacagccc cagcagctc cggtctcgc cggttcccc cgacttctc ttttgtgac gggagtgcg tgcagtggat tcacatcatg ctaccctcc catgtacctg gactgcagtg gatggagacc gttctggaat tggaggttct ctgaaatcca cctgggtttt tgagggggct tcaagtgggt cagcacaatt tctcccaacc	Homo sapiens

211	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NP_000264.1	catggagacc tatgaagggg atgtgctggg ggtccagacc ccatattctt cagactcaac aattcttgtt ctttagaact gtgttctcac cttcccaaca ctgcaactgc gaagtgtagc ggcccccaaa ccttgctctc atcaccagct agagcttctt cccgaaggcc ctttaggata ggagaaaggg ttcatgcaca cactgtgtgag aatggaagag cccctccag accactctac agctgctcta gccttagttg ccactaggaa gttttctgag ctgggctgta aagtaagtgt aaggccaca tccttgggga agtagttaaa taaaatagtt atgactg MTQAGRRGPG TPEPRPTQP MASPRLTGTC CPTRDAAITQL VLSFQPRAFH ALCLSGGLR P LALGLLQLLP GRRPAGPGSP ATSPPASVRI LRAAAACDLL GCLGMVIRST VWLGFNFVD SVSDMNHTEI WPAAFCVGSA MWIQLLYSAC FWLFCYAVD AYLVIRRSAG LSTILLYHIM AWGLATLILCV EGAAMLYPS VSRCEGLDH AIPHYVTMYL PLLLVLVANP ILFQKTVTAV ASLLKGRQGI YTENERMGA VIKIRFFKIM LVLIICWLSN IINESLLFYL EMQTDINGGS LKPVRTAAKT TWFIMGILNP AOGFLLSLAF YGWTGCSLGF QSPRKEIQWE SLTSAAEGA HPSPLMPHEN PASGKVSQVG GQTSDEALSM LSEGSDASTI EIHTASESCN KNEGDPALPT HGDL	Homo sapiens
212	3544	UDP-glucose Receptor (KIAA0001)	NM_014879	gaacagtgtt accttgagc ctacaatgag aggtatttca aaatgagtga agcatgactc A tcacagatga aggcctagac gcaggatctt taatggaaaa acacttgggc cacttcaaga cgacaaacgc tcactgggca aaacaccttc actgaaaaga gacctcatat tatgcaaaaa aaatcttaag aggcctctgc cttcagaagt tacaagatga tcaattcaac ctccacacag cctccagatg aatcctgctc tcagaacctc ctgatacttc agcagatcat tccgtgtctg tactgtatgg tcttcattgc gggaatccta tcaatcagag tgtcaggatg gatatcttt tactgcccc gctctaagag ttctcatcat tatctcaaga acattgttat tgcgtacttt gtgatgagcc tgacttttcc ttccaagatc cttgggtgact caggccttgg tccctggcag ctgaacgtgt ttgtgtgcag ggtctctgcc gtgctcttct acgtcaacat gtacgtcagc attgtgttct ttgggctcat cagctttgac aggtattata aaattgtaaa gcccttttgg acttctttca tccagtcagt gagtacagc aaacttctgt cagtगतatgt atgगतctc atgctcctcc ttgctgttcc aaatattatt ctccaccaac agagtgttag ggaggttaca caaataaaat gtatagaact gaaaagtga ctgggacgga agtggcaca agcatcaaac tactcttctg tggccatctt ctggattgtg ttcttcttct taatcgtttt ctactctgt atcacaaga aaatctttta gtcccacctt aagtcaagtc ggaattccac ttcggtcaaa aagaaatcta gccgcaacat attcagcatc gtgttttgtg ttttgtctg tttgtacct taccatattg ccagaatccc ctacacaaag agtcagaccg aagctcata cagctgccag tcaaaagaaa tcttgcggtg tatgaaagaa ttactctgc tactatctgc tgcaaatgta tgcttgacc ctattattta ttcttttcta tgcagccgt ttagggaat ctatatgaag aaattgcaca ttccattaaa agctcagaat gacctagaca ttccagaat caaaagagga aatacaacac ttgaaagcac agatactttg tgagtttcta cctcttcca aagaaagacc acgtgtgcat gttgtcatct tcaattacat aacagaatc aataagatat gtgccctcat cataaatatc atctctagca ctgcatcca atataattca atataaagt tccatgcttt ttgttaacat caaagaaaac ataccatca gtaatttctc taatactgac ctttctattc tctattaata aaaaattaat acatacaatt attcaattct attatattaa aataagttaa agtttataac cactagtctg gtcagttaat gtgaaattt aaatagtaaa taaacacaaa cataatcaaa gacaactcac tcaggcatct tcttctctc aataccagaa	Homo sapiens

213	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	MINSTSTOPP	DESCQNLLI	TOQIIPVLYC	MVFIAGILN	GVSGWIFFYV	PSSKSFIIYL	P	Homo sapiens
					KNIVIADEVM	SLTFPFKILG	DSGLGPWQLN	VFVCRVSAVL	FYVNMYSIV	FFGLISFDRY	
					YKIVKPLWTS	FIQSVSYSKL	LSVIVWMLML	LLAVPNIILT	NQSVREVTQI	KCIELKSELG	
					RKWHKASNYI	FVAIFWIVFL	LLIVFYTAIT	KKIFKSHLKS	SRNSTSVKKK	SSRNIFSIVF	
					VFFVCFVPYH	IARIPYTKSQ	TEAHYSCQSK	EILRYMKFT	LLLSAANVCL	DPIIYFFLCQ	
					PFREILCKKL	HIPLKAQNDL	DISRIKRGNT	TLESTDTL			
					tggttaaggct	ctgggaccaa	cgtgggcgga	accagatcgc	ctccggaggg	gtctgcgcgg	A
					ctggccctgc	cgcccccta	cgcgaccctg	gcgatagtcg	agcctcagcc	ccaggccacag	
					cgccgcctcc	agacgcgcgc	cgcgcgcgca	gcctggggag	cgctcctcgc	tcgcctcctg	
					taccatcca	gcgaccagcc	aggctgcggc	gaggggattc	caaccgaggc	tcagtgaga	
					gacctcagct	tagcatcaca	ttaggtgcag	cgcgagggcc	atcccaactc	gggccggggag	
					cgcacgcgtc	actggggccg	tcagtcgccc	tgcaacttcc	ccggggggag	tcaactttag	
					gttcgcctgc	ggactcgggt	cagtggaaag	cgctgaacat	cccagaggac	tggcacgctg	
					ggggctctgg	gcttggtggc	ggtagaggat	tcccgtctat	ttgcagtggc	tcagaggagg	
					gtggaccacg	cagatccgtc	cgtggagtct	ccaggagtgg	agccccgggc	gccccctaac	
					cctccgacac	gcgggatccg	gcccagccgc	gccaagccgt	aaagggtcgc	aaggccgggg	
					cgcacccgtg	ccgccagggt	catggagggc	gcgctcgccg	ccaactggag	cgccgaggca	
					gccaacgcc	gcgcgcgcgc	gcccggggcc	gagggcaacc	gcaccgcgcg	acccccgcgg	
					cgcaacgagg	ccctggcgcg	cgtggagggtg	gcggtgctgt	gtctcatcct	gtctctggcg	
					ctgagcgagg	acgcgtgtgt	gctgctggcg	ctgcgcacca	cacgccagaa	gcactcgccg	
					ctctctctct	tcataagaca	cctaagcatc	gccgacctgg	tggtggcagt	gtttcagggtg	
					ctgcccaggt	tgctgtggga	catcaccttc	cgtctctacg	ggcccagacct	gctgtgccgc	
					tggttcaagt	acttgcaggt	ggtgggcatg	tgcctctcca	cttacctgct	gctgtcatg	
					tccttgacc	gctgcctggc	catctgccag	ccgtgcgct	cgctgcgcg	ccgcaccgac	
					cgccctggcag	tgctcgccac	gtggctcgcc	tgccctgggtg	ccagcgccgc	gcaggtgcac	
					atcttctctc	tgcgcgaggt	ggctgacggc	gtcttcgact	gctgggcccgt	cttcatccag	
					ccctggggac	ccaaggccta	catcacatgg	atcacgctag	ctgtctacat	cgtgcgcggtc	

214

3582

Oxytocin
Receptor

NM_000916

atcgtgctcg ctacctgcta cggccttata agttcaaga tctggcagaa ctgcgggctc
aagaccgctg cagcgggcg ggcgagggc ccagagggc cggcgctgg cgtggggggg
cgcgtggccc tggcgcgtg cagcagcgtc cagcagcgtc ccaaggccaa gatccgcaag
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gtgcagatgt ggagcgtctg ggatggccaa cgcgccaaag aagcctcgcc ctctcatc
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ggccacctct tccacgaact cgtgcagcgc ttctgtgtgt gctccgccaag ctacctgaag
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gtccagtgt ctggacttgg ggtgaagcagt ggggttggga cctcagatgg gaagggtgg
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tggggaccag cttgtcagag ggtagcccta agagaagggt attacctgt aagaccatct
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catttgggaa agaaaaagaa ataatgtat ccatagtagga aaagaagaag taaaactat
tgcagatgac acagtgttgt atatagaaaa tccataaggaa ctcacacaca cacacacaca
cacacacgca cacagctatt agaactaata agcaagtctc gcaagggttc aagatacaag
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acaagtgcaa gactgaaaaac tacaataattg gaaagaaatt aaagaaggct taaataaatg
gaaagacatc ctgtgttcat ggatcagact tagtattgtt aagatggcaa tactatccta
actgacatgc agattcagtg caatccttat gaaaatcata gctggctttt ttacagaat
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aatcagctca gtgtgttact ggtttaagga tagacatacg gagcagaata aagagtacag
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tggctactaa gcacatgaaa aatactcaac attattattc attagggaaa tgcaagtcaa
aatcacaatg agattccagt ttacaatcac taggatggct acaataaaaa gatggacaag

215	3582	Oxytocin Receptor	NP_000907.1	MEGALAANWS AEAANASAP LLALRTRQK HSRLEFFMKH VGMFASTYLL LMSLDRLA ADGVFDCWAV FIQPWGPKAY AEAPEGAAG DGRVALARV DANAPKEASA FIIIVMLLASL SASKSNSSS FVLSHRSSSQ cggcagcagg caccocgaga agcagcacta cctgcccaga tgthtttctt gtttcccgca catgagttag gaaccctgag ggcgatggc agcacacctg atgagctggg ctacaggtgc cctacggcgt ggtgtgctg tgtgccgctt caagacctgg atgcactgta tgcggcctcc ggcccttcag caggtgtgct gcagcactct ctctctcacc tgcgtctcct gcgtggggc tgttggtgct ggctgcccag gccgcgtaac ctgccacgac gtcagatcat gctgggctg tgtcatggc tcggcgactg ccaaagcgaa gtccgtgccc tgccattcca cgtcaccocg acaccctcaa cgcctcaac gttgccctta ccccgctgct atgccaagcc acccactggc gcagatccga cagaactgac tcaggcggac agagtccacg	NP_000907.1 MEGALAANWS AEAANASAP LLALRTRQK HSRLEFFMKH VGMFASTYLL LMSLDRLA ADGVFDCWAV FIQPWGPKAY AEAPEGAAG DGRVALARV DANAPKEASA FIIIVMLLASL SASKSNSSS FVLSHRSSSQ cggcagcagg caccocgaga agcagcacta cctgcccaga tgthtttctt gtttcccgca catgagttag gaaccctgag ggcgatggc agcacacctg atgagctggg ctacaggtgc cctacggcgt ggtgtgctg tgtgccgctt caagacctgg atgcactgta tgcggcctcc ggcccttcag caggtgtgct gcagcactct ctctctcacc tgcgtctcct gcgtggggc tgttggtgct ggctgcccag gccgcgtaac ctgccacgac gtcagatcat gctgggctg tgtcatggc tcggcgactg ccaaagcgaa gtccgtgccc tgccattcca cgtcaccocg acaccctcaa cgcctcaac gttgccctta ccccgctgct atgccaagcc acccactggc gcagatccga cagaactgac tcaggcggac agagtccacg	ggtagaaact tagagaaact ctgctttga aaaaagttt ccagggaatg ccaactctag aacttgta ccaatgttca cattgtact caaatgtctc aacttgtaa aacttgtaa tgcaattgaa tgcaattgct ctggcaggcc ctggaggctg tttcgggtga tgaaaatgtt aaaaaccaat gaacttttaa MEGALAANWS AEAANASAP LLALRTRQK HSRLEFFMKH VGMFASTYLL LMSLDRLA ADGVFDCWAV FIQPWGPKAY AEAPEGAAG DGRVALARV DANAPKEASA FIIIVMLLASL SASKSNSSS FVLSHRSSSQ cggcagcagg caccocgaga agcagcacta cctgcccaga tgthtttctt gtttcccgca catgagttag gaaccctgag ggcgatggc agcacacctg atgagctggg ctacaggtgc cctacggcgt ggtgtgctg tgtgccgctt caagacctgg atgcactgta tgcggcctcc ggcccttcag caggtgtgct gcagcactct ctctctcacc tgcgtctcct gcgtggggc tgttggtgct ggctgcccag gccgcgtaac ctgccacgac gtcagatcat gctgggctg tgtcatggc tcggcgactg ccaaagcgaa gtccgtgccc tgccattcca cgtcaccocg acaccctcaa cgcctcaac gttgccctta ccccgctgct atgccaagcc acccactggc gcagatccga cagaactgac tcaggcggac agagtccacg	aggcagctgg cgagaggagc aggctgggagc tggccccag cagctccggtc caggtccag catctcgacc tggagagcag atgacacctt caatggcacc aggactcaa gtacgtgctg gtctgaacgc cgtggcgctc ccacataat gttccacctg tggtctatta ctacgccgc tgcgcttctt cttctacacc tgcacccgtg tctggcgctc agctccgctg ggtggccggg tctactttgt caccaccagc cagagctctt cagccgcttc tgccttttgc cgtcactcct ctcagggagc ctccctaggg tggtgtcggc tgtcttcgcc accatcgccg tgcgtggagc actccttctc ctcgctggag aggttaccoc gccgtggcc tacttctggt gctcgtagc ccagcccgcc tcgcccgag ccagccctg tcggcgccag atgcagagga taggagatgt cggctggta tcgagaacac taaggacatt cggctgtagg	Homo sapiens	Homo sapiens
216	3589	Purineric Receptor P2Y, G-protein coupled, 2 (P2RY2)	NM_002564	ggtgaggatg tagagaaact cctgctttga aaaaagttt ccagggaatg ccaactctag aacttgta ccaatgttca cattgtact caaatgtctc aacttgtaa aacttgtaa tgcaattgaa tgcaattgct ctggcaggcc ctggaggctg tttcgggtga tgaaaatgtt aaaaaccaat gaacttttaa MEGALAANWS AEAANASAP LLALRTRQK HSRLEFFMKH VGMFASTYLL LMSLDRLA ADGVFDCWAV FIQPWGPKAY AEAPEGAAG DGRVALARV DANAPKEASA FIIIVMLLASL SASKSNSSS FVLSHRSSSQ cggcagcagg caccocgaga agcagcacta cctgcccaga tgthtttctt gtttcccgca catgagttag gaaccctgag ggcgatggc agcacacctg atgagctggg ctacaggtgc cctacggcgt ggtgtgctg tgtgccgctt caagacctgg atgcactgta tgcggcctcc ggcccttcag caggtgtgct gcagcactct ctctctcacc tgcgtctcct gcgtggggc tgttggtgct ggctgcccag gccgcgtaac ctgccacgac gtcagatcat gctgggctg tgtcatggc tcggcgactg ccaaagcgaa gtccgtgccc tgccattcca cgtcaccocg acaccctcaa cgcctcaac gttgccctta ccccgctgct atgccaagcc acccactggc gcagatccga cagaactgac tcaggcggac agagtccacg	NM_002564 ggtgaggatg tagagaaact cctgctttga aaaaagttt ccagggaatg ccaactctag aacttgta ccaatgttca cattgtact caaatgtctc aacttgtaa aacttgtaa tgcaattgaa tgcaattgct ctggcaggcc ctggaggctg tttcgggtga tgaaaatgtt aaaaaccaat gaacttttaa MEGALAANWS AEAANASAP LLALRTRQK HSRLEFFMKH VGMFASTYLL LMSLDRLA ADGVFDCWAV FIQPWGPKAY AEAPEGAAG DGRVALARV DANAPKEASA FIIIVMLLASL SASKSNSSS FVLSHRSSSQ cggcagcagg caccocgaga agcagcacta cctgcccaga tgthtttctt gtttcccgca catgagttag gaaccctgag ggcgatggc agcacacctg atgagctggg ctacaggtgc cctacggcgt ggtgtgctg tgtgccgctt caagacctgg atgcactgta tgcggcctcc ggcccttcag caggtgtgct gcagcactct ctctctcacc tgcgtctcct gcgtggggc tgttggtgct ggctgcccag gccgcgtaac ctgccacgac gtcagatcat gctgggctg tgtcatggc tcggcgactg ccaaagcgaa gtccgtgccc tgccattcca cgtcaccocg acaccctcaa cgcctcaac gttgccctta ccccgctgct atgccaagcc acccactggc gcagatccga cagaactgac tcaggcggac agagtccacg	gtagaaaatt gtagaaaact ggcagtaacct aaaaagttt gtatttacct tagcaactt aatgggaatt aatgggaatt tgagtgactt caaatgtctc cagggtgcaa aagccacat aatctatata gagtgaatc ggcatgacta ctaagggtt ggtgattgtg cagcattttg aaacaaa PPRRNEALAR VEVAVLCIL FQVLPQLLWD ITFRFYGPD RTDRLAVLAT WLGLVASAP VPVIVLATCY GLISFKIQW INTVKMTFII VLAFIGWTP LFTGHLFHEL VQRFCCSAS RSCSQPSTA aggcagctgg cgagaggagc aggctgggagc tggccccag cagctccggtc caggtccag catctcgacc tggagagcag atgacacctt caatggcacc aggactcaa gtacgtgctg gtctgaacgc cgtggcgctc ccacataat gttccacctg tggtctatta ctacgccgc tgcgcttctt cttctacacc tgcacccgtg tctggcgctc agctccgctg ggtggccggg tctactttgt caccaccagc cagagctctt cagccgcttc tgccttttgc cgtcactcct ctcagggagc ctccctaggg tggtgtcggc tgtcttcgcc accatcgccg tgcgtggagc actccttctc ctcgctggag aggttaccoc gccgtggcc tacttctggt gctcgtagc ccagcccgcc tcgcccgag ccagccctg tcggcgccag atgcagagga taggagatgt cggctggta tcgagaacac taaggacatt cggctgtagg	Homo sapiens	Homo sapiens	

Homo
sapiens

217 3589 Purinergic NP_002555.1 MAADLGPWND TINGTWDGDE LGRCRFNEF FKYVLLPVSY GVVCVLGLCL NAVALYIFLC P
Receptor
P2Y, G-
protein
coupled, 2
(P2RY2)
RLKTNASTT YMFHLAVSDA LYAASLPLLV YYYARGDHPV FSTVLCKLVR FLFTNLYCS
ILFLTICSVH RCLGLVLRPLR SLRWGRARYA RRVAGAVWVL VLACQAPVLY FVTTTSARGGR
VTCHDTSAPF LFSRFVAYSS VMGLLLFAPV FAVILVCYVL MARRLLKPAY GTSGLPRAK
RKSVRTIAV LAVEALCFLP FHVTRTLYYS FRSLDLSCHT LNAINMAYKV TRPLASANSC
LDPVLYFLAG ORLVRFARDA KPPTGSPSPAT PARRRLGLRR SDRTDMQIRIG DVLGSSEDFR
RTESTPAGSE NTKDIRL

Homo
sapiens

218 3595 Purinergic NM_002563
Receptor
P2Y1
ccccctccc cggggatcca gttcgccctgc tcccttcgcg tcgctggcctt ttcgatgtct A
tgctcgccc ctggccgcg ctgcccctctc gcgcctcctt accctccga ggcgcgcct
aagtcgagga ggagagaatg accgaggtgc tgtgcccagc tgtcccccga cggacggagc
ctgcctctct gcccggctcc ggttcgtcct gggggaaacag caccgtccgc tccactcgc
ccgtctctc gtcgttcaaa tgcgccttga ccaagacggg ctccagttt tactacctgc
cggctgtcta catcttggtg ttcacatcg gcttcctcggg caacagcgtg gccatctgga
tgttcgtctt ccacatgaag cctggagcg gcactcctgt gtacatgttc aattggctc
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cagactggat ctccgggat gccatgtga aactgcagag gttcatcttt catgtgaacc
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gcaaaaacaa aaccatcac tgttacgaca ccactcaga cgagtacctg cgaagtattt
tcatctacag catgtgcacg accgtggcca tgttctgtgt ccccttgggt ctgattctgg
gctgttacgg attaatgtg agagctttga tttaaaaaa tctggacaaac tctcctctga
ggagaaaaac gatttacctg gtaatcattg tactgactgt ttttgcgtg tctacatcc
ctttccatgt gatgaaaaac atgaacttga gggcccggtt tgattttcag accccagcaa
tgtgtgtttt caatgacagg gtttatgcca cgtatcaggt gacaagaggt ctgcaagtc
tcaacagtgt tgtggacccc attctctatt tcttggcggg agatactttc ctgcaagagc
tctcccgagc cacaaggaaa gcttctagaa gaagtgggc aaatttgcaa tccaagagt
aagacatgac cctcaatatt ttacctgagt tcaagcagaa tggagatata agcctgtgaa
ggcacaagaa tctccaaaca cctctctgtt gtaatatggt aggatgctta acagaatcaa
gtacttttcc cctctttaac tttctagttt agaaaaaaat caaaccaaga aaatagttag

219	3595	Purinegic Receptor P2Y1	NP_002554.1	<p> tataaaaaat aatagaagta gaaatgcccc catccacact tagcttggtt gggtttgctt tcacagtctc tcttccttct gactagaagt atgtataata aaacaatact acctagttaa acatttactt tctcttttgc ctttaaaatg tgcaggcttt tctgtttaaa gtgtgtgtgc acatgagtac tggggtctgt tttgatatta gtaaaaaact agcccoctgc aacttgagtt tgggttttat tagcctttta ttgttttttc aaatccaca gttagaataa aaaatctata ttctcagaaa tatctagcat ggtatataac aaacactaa actcatcagt tcatccggca tcagatcaat ggtctctga gcgggtgtt ttttcagt tcttaagc atagatgata gttgactgag ttcttttagg gcatgataa gacaagtaa gctaataat ttaaagcct gaaaagtgt tttttccag ttattctgg aaaaggtctc attatatatt gggtgctaaa tgtttgatgg ggaagcctg catatattat cgtactgga aatgcattc aaaataatta aagtgcattg atttctctg taaacacct gagctctctt agacatctg tgataaagag catttactg cccactgct gtgcaatgcc taggacttt gttgtgttc caggacaagt gttcactcac atctgtaaaa caattgtcaa taaattacag accaaaagt gagtaagtc aaataactgt tagtaagtgt aagatatatt gacaggaga cagtatttca gaaaaggaga gttgacagt catccacaag gcatagctc caagtatact ctcaaatgta tgaagcaact ggggtgggca gaagacatt tagaatgagg gccttagtt taaattaaag tcatggtgga gaagactctt gctccacca agtgtttgaa aacacaaaa acgatataaa aaaaaaaaaa aaaa MTEVLWPAVP NGTDAFLAG PGSGWGNSTV ASTAAVSSSF KCALTKTGFQ FYLPVAVYL P VFIIIGFLGNS VAIWMFVFM KMWSGISVYM ENLALADFLY VLTLPALIFY YFNKTDWIFG DAMCKLQRFI FHNLYGSIL FLTCLSAHRY SGVYPLKSL GRLLKKNALC ISVLVWLIVV VAISPILFYS GTGVRKNKTI TCYDTSDEY LRSYFIYSMC TTVAMFCVPL VLILGCYGLI VRALIYKDLN NSPLRRKSIY LVIIIVLTVFA VSIYFHVMMK TMNLRLARLDF QTPAMCAFND RVYATYQVTR GLASLNSCVD PILYFLAGDT FRRRLSRATR KASRRSEANL QSKSEDMTLN ILPEFKQNGD TSL </p>	Homo sapiens
220	3596	Purinegic Receptor P2Y5	NM_005767	<p> ctgatgaaag tgcttccaaa ctgaaaaattg gacgtgcctt tacgatggta agcgittaaca A gctcccactg cttctataat gactccttta agtacacttt gtatgggtgc atgttcagca tggtgtttgt gcttgggtta gtatccaaat gtgttgccat atacattttc atctggtcc tcaaatccg aatgaaact acaattaca tgattaactt ggcaatgtca gacttgcttt ttgtttttac tttaaccttc aggtttttt acttcacaa acggaattgg ccatttgag atttactttg taagatttct gtgatgctgt ttataccacaa catgtacgga agcattctgt tcttaacctg tattagtga gatcgatttc tggcaattgt ctacctttt aagtcacaaga ctctaagaac caaaagaaat gcaagatttg ttgtcactgg cgtgtggtta actgtgctg gaggaaagtc accgcctgt ttgttcagt ctaccttc tcagggtaac aatgcctcag aagcctgctt tgaaaaattt ccagaagcca catggaaaac atatctctca aggatgttaa tttctatcga aatagtggga ttttttatt ctctaattt aatgttaact tgttctagta tggtgctaaa aactttaacc aaaccagtta cattaagttag aagcaaaaaa acaaaaaa aggttttaaa aatgattttt gtacatttga tcatattctg tttctgtttt gttccttaca atatcaatct tattttat tctctgtga gaacacaaac atttgttaat tgctcagtag tggcagcagt aaggacaatg taccaatca ctctctgtat tgctgttcc aactgtgtt ttgaccttat agtttactac ttacatcgg acacaattca gaattcaata aaaaagaaaa </p>	Homo sapiens

221	3596	Purinerigic Receptor P2Y5	NP_005758.1	actggtctgt caggagaagt gacttcagat tctctgaagt tcatgggtga gagaatttta ttcagcataa cctacagacc ttaaaaagta agatatattga caatgaatct gctgcctgaa ataaaacacat taggactcac tgggacagaa ctttcaag MVSVNSSHCF YNDSFKYTLY GNFMFVFL GLVSNCAIY IFICVLKVRN ETTYMINLA P MSDLLFVFTL PFRIFYFTR NWFGDLLCK ISVMLFYTM YGSILFLTCI SVDRELAIVY PFKSKTLRTH RAKIVCTGV WLTVIGGSAP AVFVQSTHSQ GNNASEACFE NFPEATWKTY LSRIVIFIEI VGFPIPLIN VTCSSMVLKT LTKPVTLSRS KINKTKVLKM IFVHLIIFCF CFVPYNINLI LYSILVRTQTE VNCSSVAAVR TMYPTILCIA VSNCCFDPIV YFTSDTIQN SIKMNWSVR RSDRFSEVH GAENFIQHNL QTLKSKIFDN ESAA	Homo sapiens
222	3597	Purinerigic Receptor P2Y6	NM_004154	aaggacagag gaggggacct tctgttcagc tggctgggag cagaggtggc ttgtctcttt A cggaagaact ggttctgtgg aatttgtgt tatttcccat caaggatcaa ggacctgctc tggggctacc tcaggggccc acaggatgag gggctgggtt tcagatgagt ttctgcttg cctgtcatct ggatagtgtc taaaaatttg caaactgctt tctgtcagt gcttgctca ttcttcata gactcctgat atgtctctca gtttcccat ctgctgctc tcagacttc tgccagaaca ttgcacgca cagtttcagg cacagaactg actggcagca ggggctgctc cacgagtggg aattgtctc agcacttcac ggactgcag cgaggcactt gtaactctt ggataacaag acctctgcca gaagaacctat ggctttggaa ggcggagttc aggtgagga gatgggtgg gtctcagtg agcccttgcc tccctgaaca taggaacccc acctgtgtct ccatggaatg ggacaaatgg acaggccagg ctctgggctt gccacccc accctgtgtct accgcgagaa cttcaagcaa ctgctgtctg acatctgtga ttccggcggtg ctggcggtg gcctgcccgt gaacatctgt gtcattaccc agatctgac tcccgcggg gccctgaccc gcacggccgt gtacaccta aaccttgctc tggctgacct gctatatgcc tgctccctgc ccctgctcat ctacaaatat gccaaagtg atcactggcc ctttggcgac ttgcctgccc gcctgggtccg ctctctctc tatgccaacc tgcacggcag catctcttc ctacactgca tcagcttcca gcgtacctg ggcacttgcc acccgctggc cccctggcac aaacgtgggg gccgcggggc tgcctggcta gtgtgtgtag ccgtgtggt ggcgtgaca acccagtgcc tgcccacagc catcttctgt gccacaggca tccagcgtaa ccgcaactgc tgctatgacc tcagcccgcc tgccttgcc accactata tgcctatgg catggctctc actgtcatcg gcttctgtct gcccttgct gccctgtgg cctgctactg tctcctggcc tgcgcctgt gccgccagga tggcccggca gagcctgtgg ccagaggagc gcgtggcaag gcggcccgca tggccgtggt ggtggctgct gcccttgcca tcagcttctc gccctttcac atcacaaga cagcctacct ggagtgccg tcgacggcgg gcgtcccctg cactgtattg gaggcctttg cagcggccta caaaggcac cgccgctttg ccagtgcga cagcgtgctg gacccatcc tcttctactt caccagaag aagttccgcc ggcagaccaca tgagctcta cagaaactca cagccaaatg gcagaggcag ggtcgtgtg tccctccagt cctgggcagc ctctatatt gccatttgtt ccggggcacc aggagcccca ccaaccccaa accatgcga gaattagagt tcagctcagc tgggcatgga gttaaatcc ctacaggac ccagaagctc accaaaaact atttctcag ccccttctct gggccagacc ctgtgggcat ggagatggac agacctgggc ctggtctctt agaggtccca gtcagccatg gagagctggg gaaccacat taaggtgctc acaaaaatac agtgtgacct gtactgtcaa aa	Homo sapiens

223	3597	Purinergic Receptor P2Y6	NP_004145.1	MEWDNGTQGA	IGLPPTTCVY	RENFQQLLLP	PVYSAVLAAG	LPLNICVITQ	ICTSRRALTR	P	Homo sapiens
				TAVYTLNIAL	ADLLYACSLP	LLIYNYAQGD	HWPFGDFACR	LVRELFYANL	HGSILFLTCI		
				SFQRYLGICH	PLAPWHKRG	RRAAWLVCVA	VMLAVITQCL	PTAIFAATGI	QRNRTVCYDL		
				SPPALATHYM	PYGMALTIVG	FLLPFAALLA	CYCLACRLC	RQDGPAPFVA	QERRGKAARM		
				AVVVAFAFPI	SFLPFHITKT	AYLAVERSTPG	VPCTVLEAFA	AAYKGTRPFA	SANSVLDPIIL		
				FYFTQKKFRR	RPHELLQKLT	AKWQRQGR					
224	3599	G Protein- Coupled Receptor 23 (GPR23)	NM_005296	cctacggctc	catagtgctca	gagtggtgaa	ccccgcagc	cagcaggcct	cctgaaaaaa	A	Homo sapiens
				aagtcacatg	gtgacagaag	attcattgac	ttccaattcc	aagattcaaa	ttcaagcctc		
				agaccagggt	tgggcaatgc	tactgccaat	aatacttgca	ttgttgatga	ttccttcaag		
				tataatctca	atgggtcgtg	ctacagtggt	gtattcatct	tgggtctgat	aaccaaacgt		
				gtctctctgt	ttgtctctcg	tttcgcgatg	aaaatgagaa	gtgagactgc	tatttttatt		
				accaatctag	ctgtctctga	tttgcttttt	gtctgtacac	taccttttaa	aatattttac		
				aacttcaacc	gccactggcc	ttttggtgac	accctctgca	agatctctgg	aactgcattc		
				cttaccaca	tctatgggag	catgctcttt	ctcacctgta	ttagtgtgga	tcgtttcctg		
				gccattgtct	atccttttgc	atctcgtact	attagacta	ggaggaaattc	tgccattgtg		
				tgtctggtg	tctggatcct	agtcctcagt	ggcgggtattt	cagcctcttt	gttttccacc		
				actaatgtca	acaatgcaac	caccacctgc	tttgaaggct	ttccaaaacg	tgtctggaag		
				acttatttat	ccaagatcac	aataatttat	gaagtgtgtg	ggtttatcat	tcctctaata		
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				gctattacta	attgcttttt	ggaaagattt	gcaaacatca	tgtacccaat	caccttgtgc		
				cttgcaactc	tgaactgttg	ttttgacctt	ttcatctatt	acttcacct	tgaatccttt		
				cagaagtctc	tctacatcaa	tgcccacatc	agaatggagt	ccctgtttta	gactgaaaca		
				cccttgacca	caaaagcctc	ccctccagct	attcaagagg	aagtgagtga	tcaaaaca		
				aataatgggtg	gtgaattaat	gctagaatcc	accttttagg	tatgagaaat	gtgttcagg		
				ccagatatgg	tttctcctat	aatttttctt	atgctataaa	ctaaagattt	gaagctaattg		
				atactgagaa	taatgcacca	aatccagtca	gatacaattg	tttgaaggga	tactgtagag		
				tttttattgc	tgttttgttc	agtaattata	ggtcaaatct	aattacaaca	accaagatgg		
				attgccaaac	tcttctgctt	ggttggaatt	tcattgtatc	gcattatcca	gggtggctagt		
				ggcatttgat	aatatagaga	tgactttgaa	actttcaaaa	aggtatttct	attccaatga		
				tatttggtaa	ttaggttggg	cctataaata	tagaacaat	tcagggattt	ttaaaaaatt		
				gtgttactac	tgatatatgc	tagttttatt	ttattttttt	ggactgtcat	tgagttttatt		
				ttagcacaa	aatattttta	gcctaacatt	attataaaga	aatgtgtcaa	atttttaaca		
				ttggtaaaat	atgttatgtg	cattttgaaa	acagaaaaa	aattgcgttg	gcatgtacgt		
				gggtgggaag	aaaaagaaaa	ttaacaggat	ttacacaatt	ataatcacca	gcagtgtgag		
				tttaaaaaac	ttcgttgggt	ttacaccaaa	ttaaaatttt	catgtcaaac	ttcaaaagcca		
				gaaagctgct	aaatacgtgt	ctggcaggta	aaagtgggaa	aatattctaa	aacagggaaa		
				tgtcaataaa	aaaacttgag	caacaccaac	atatttttcc	ttaaaatgtc	acgtttatctt		
				cattttggga	aactaggttc	tataaaaat	ttatctctcc	tgttatctt	tggagcacag		
				cacagccaga	aaggggctgc	atttgtgcc	agggtcaggag	caaatgaaa	aaaaaaataa		

3599	G Protein-Coupled Receptor 23 (GPR23)	NP_005287.1	MGDRRFIDFQ FQDSNSLRP RLGNATANNT CIVDDSEKYN LNCVAVSVVF ILGLTNSVS P	Homo sapiens
2225			LFVFCFRMKM RSETAIFITN LAVSDLLFVC TLPEKIFYNE NRHWPFQDGL CKISGFAFLT	
			NIYGSMLFLT CISKVDRLAI VYFPRSRTIR TRNSAIVCA GVMILVLSGG ISASLFSTTN	
			VNNATTTCFE GFSKRVWKTY LSKITIFIEV VGFIPLILN VSCSSVLRRT LRKPATLSQI	
			GTNKKKVLKM ITVMHVFVW CFVPYNSVLF LYALVRSQAI TNCFLERFAK IMYPITLCLA	
			TLNCCFDPEI YYFTLESFQK SFYINAHIRM ESLFKTETPL TTKPSLPAIQ EEVSDQTNN	
			GGELMLESTF	
3638	Parathyroid Hormone Receptor 2 (PTH2)	NM_005048	ggcgcgtggc ccggggccga ccacccagc tgcgcgtcgt tactggccac aagtttgctc A	Homo sapiens
2226			tgggccaagc aagttggcaa cttagaagct tctccgggc tctggaggag ggtccctgct	
			tcttctaca gccgttccgg gcatggccgg gctggggcgg tgcgtccacg tctggggttg	
			gctaagtctc ggcaagtgcg tcttgccag agccagctg gattctgatg gcacattac	
			tatagaggag cagatgtgctc ttgtgctgaa agcgaagta caatgtgaac tcaacatcac	
			agctcaactc caggaggag aagtaattg ttccctgaa tgggatggac tcatgtgttg	
			gccagagga acagtgggga aaatatggc tgttccatgc cctcctata tttatgactt	
			caaccataaa ggagtgtctt tccgacactg taaccccaat ggaacatggg atttatgca	
			cagcttaaat aaaaatggg ccaattattc agactgcctt cgctttctgc agcagatat	
			cagcatagga agcaagaat tctttgaacg cctctatgta atgtataccg ttggctactc	
			catctctttt ggttctcttg ctgtggctat tctcatcatt ggttacttca gacgatgca	
			ttgcaactagg aactatatgc acatgcactt atttgtgtct ttcattgcta gagctacaag	
			catctttgtc aaagacagag tagtccatgc tcacatagga taaaggagc tggagtccct	
			ataaatgcag gatgacccac aaaaattccat tgaggcaact tctgtggaca aatcacata	
			tatcgggtgc aagattgctg ttgtgatgtt tatttacttc ctggctacaa attattattg	
			gatcctggtg gaagttctct acctgcataa tctcatcttt gtggctttct ttcggacac	
			caaatacctg tggggcttca tcttgatagg ctggggggtt ccagcagcat ttgttgcagc	
			atgggctgtg gcacagagcaa ctctggctga tgcgaggtgc tgggaactta gtgctggaga	
			catcaagtgg attatcaag caccgatctt agcagctatt gggctgaatt ttattctgtt	
			tctgaatacg gttagagttc tagctaccaa aatctgggag accaatgcag ttgggcatga	
			cacaaaggaag caatacagga aactggccaa atcgacactg gtccctggctc tagtctttgg	
			agtgcattac atcgtgttcg tatgcctgcc tcactccttc actgggctcg ggtgggagat	
			ccgcatgcac tgtgagctct tcttcaactc ctttcagggt ttcttttgtt ctatcatcta	
			ctgctactgc aatggagagg ttcaggcaga ggtgaagaag atgtggagtc ggtggaatct	
			ctccgtggac tggaaaagga caccgccatg tggcagccgc agatgcggct cagtgcctcac	
			caccgtgacg cacagcaca gcagccagtc acaggtggcg gccagcacac gatggtgct	
			tatctctggc aaagtggcca agatgccag cagacagcct gcagccaca tcactttacc	
			tggctatgtc tggagtaact cagagcagga ctgcctgcca cactctttcc acgaggagac	
			caaggaagat agtgggaggc agggagatga tattctaag gagaaacct ccaggcctat	
			ggaatctaac ccagacactg aaggatgcca aggagaaact gaggatgttc tctgaatgga	

227	3638	Parathyroid Hormone Receptor 2 (PTHr2)	NP_005039.1	<p>catttggtggc tgactttcat gggctgggtcc aatggctggt tgtgtgagag ggcttggtg</p> <p>atactccat gcttgagttc aaagctgaa aattcagtta aggtgttact taataatagt</p> <p>ttttaggctc catgaattgg ctctgtataa tactaacgac atgaaaaatgc aagtgtcaat</p> <p>ggagtgtgtt attaccttct attggcatca agttttcttc taaataatg tatggtattt</p> <p>gctctgtgat tgttcaatttt tttctgtac ttttgggtag aaaaaagatt caattgcttg</p> <p>gctgtagctt tctctcatat atataccct aaataaatg aagatctttt agtgtgtatc</p> <p>atttccctt tagaaactag tattctctta tttcttact taatgtactt ctatcactgc</p> <p>atttatttg cctgtgcata ggagcaatta ggaataaaa aaataatgg gaagataaaa</p> <p>gatctaagaa caagtacttg ctgaaaaatt agttggctgg acattgataa aataatgcat</p> <p>ttataacaat tacatgtgtt tttgggaaca agaaaaattt ctcaaaaaag aatatttcac</p> <p>acatcccttc ttttgaatgg cctctttgtg accagccaga cctcaggctc tcaactcttc</p> <p>ttctttgtaa accatgtcat gtggaagat ttcctcagtt agtgagcttg tgtctgcaaa</p> <p>ttgattttgt ttgtaatgta ttttgatagc aaatcatgct gcatctatat cttttcttg</p> <p>tttgagctgt tactacattg tacatggcat gtgggatcaa ttaaaaaattt gttttaaaaa</p> <p>t</p>	Homo sapiens
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	NM_000316	<p>cggaggagc cggccctagg cgtggcgat ggggaccg cggatcgac cggccctggc</p> <p>gctcctgctc tgcgtccccg tgcctagctc cgcgtacgcg ctggtggatg cagatgacgt</p> <p>catgactaaa gaggaacaga tcttctgct gcaccgtgct caggcccagt gcgaaaaacg</p> <p>gctcaaggag gtctgcaga ggcagccag cataatggaa tcagacaagg gatggacatc</p> <p>tgcgtccaca tcagggaagc ccaggaagc taaggcatct gggaagctct accctgagtc</p> <p>tgaggaggac aaggaggcac ccactggcag caggtaccga gggcgccctt gctgcccga</p> <p>atgggaccac atctgtgct ggcgctggg ggcaccaggt gaggtgggtg ctgtgcccgtg</p> <p>tccggactac attatgact tcaatcaaa aggccatgcc taccgacgt gtgaccgcaa</p> <p>tggcagctgg gagctggtgc ctgggcacaa caggacgtgg gccaaactaca gcgagtgtg</p> <p>caaatcttc accaatgaga ctctggaac ggaggtgtt gaccgctgg gcatgatta</p> <p>caccgtgggc tactccgtg ccttggctc cctcaccgta gctgtgtca tcttggccta</p> <p>ctttaggcgg ctgactgca cgcgcaacta catccacatg cactgttcc tgtccctcat</p> <p>gctgcgcgc gtgagcatct tctcaagga cgtctgtct tactctggcg ccacgttga</p> <p>tgaggctgag cgcctcacg aggaggagct gcgcgccatc gccaggcgc ccccgccgc</p> <p>tgccaccgct gctgcccgt acgcccgtg cagggtggct gtgaccttct tctttactt</p> <p>cctggccacc aactactact ggattctggt ggaggggctg tactgcaca gcctcatctt</p>	Homo sapiens

229	3640	Parathyroid Hormone Receptor 1 (PTHr1)	NP_000307.1	catggccttc ttctcagaga agaagtacct gtggggcttc acagtcttcg gctggggtct gcccgtgtc ttctgtgctg ttgtgggtcag tgtcagagct accctggcca acaccgggtg ctgggacttg agctccggga acaaaaagtg gatcatccag gtgcccaccc tggcctccat tgtgtcaac ttcatcctct tcatcaatat cgtccgggtg ctgcccacca agctcgggga gaccaacgcc ggccgggtgtg acacacggca gcagtacggg aagctgtctca aatccagct ggtgtcatg cccctctttg gcgtccacta cattgtcttc atggccacac catacacga ggtctcaggg acgctctggc aagtcagat cactatgag atgtcttca actccttcca gggattttt gtcgcaatca tatactgtt ctgcaatggc gaggtacaag ctgagatcaa gaaatcttg agccgtgga cactggcact ggacttcaag cgaaggcac gcagcgggag cagcagctat agctacggcc ccattgtgtc ccacacaagt gtgaccaatg tcggccccc tgtgggactc ggccctggcc ctagccccc cctactgcc actgccacca ccaacggcca ccctcagctg cctggccatg ccaagccagg gacccagcc ctggagacc tcgagaccac accacctgcc atggctgtc ccaaggacga tgggttccct aacggctcct gctcaggcct ggacaggag ccctctgggc ctgagcggcc acctgccctg ctacaggaa agtgaggagac agtcattga ccaggcgtg gggcctggac ctgctgacat agtgatgga cagatggacc aaaagatgg tggttgaatg attccact cagggcctgg ggccaagagg aaaaacaggg aaaaaagaa aaaaaaaga aaaaggaa	Homo sapiens
230	3732	PACAP Receptor Type 1	NM_001118	VTKEEQIFL LHRQAQCEK RLKEVLQRP P SAYALVDADD SEEDKEAPTG SRYGRPCLP EWDHILCWPL DKASKLYPE NGSWELVPGH NRTWANYSEC VKFLTNETRE KGHAYRRCDR YIHMHLFLSF MLRAVSIFFK SLTVAVLILA YFRRLHCTRN CRVAVTFFLY FLATNYWIL PATAAAGYP PATAAAGYP SVRATLANTG CWDLSSGNKK LWGFVFGWG LPAVFVAVV ETNAGRCDR QQYRKLLKST LVLMPFVGH IVRVLATKLR QGFVVAIYC FCNGEVOAEI KKSWSRWTLA MHYEMLENSF RVGLGLPLSP RLPTATTNG HPQLPGHAKP DGFNGSCSG LDEEASGPER PPALLQEWE TVM agcccagaga cacattggg ctgacctgcc gctgctgca gtgggaggcc agtgggtgctg A gccaagaagt gtcattggctg gtgtcgtgca cgtttccctg gctgtcact gcggggcctg tcctgtgggc cggggcagac tcgcgaagg acgcgcagcc tgcaagtccg cggcccagag acacattggg gctgacctg cgtgctgtc agtgggaggc cagtgtgtct ggccaagaa tgtcatggct ggtgtcgtg acgtttccct gctgctctc ctcctgtgc ctatggccc tgccatgcat tctgactgca tctcaagaa ggagcaagcc atgtgcctgg agaagatcca gagggccaat gagctgatg gcttcaatga tctcttcca ggctgtcctg ggatgtggga caacatcag tgttggaaac ccgcccattg ggtgagatg gtcctgttca gctgccctga gctcttccga atcttcaacc cagaccaagt ctgggagacc gaaaccattg gagagtctga ttttggtgac agtaactcct tagatctctc agacatggga gtggtagacc ggaactgcac ggagatggc tggctggaaac ccttccctca ttactttgat gctgtgggt ttgatgaata tgaatctgag actgggacc aggatatta ctacctgtca gtgaaggccc tctacacgtt tggctacagc acatccctcg tcacctcac cactgacctg gtcactctt gtcgctccg gaagctgcac tgcacacgca acttcatcca catgaacctg tttgtgtcgt tcatgtgag	Homo sapiens

231	3732	PACAP Receptor Type 1	NP_001109.1	<p>ggcgaatctcc gtcttcatca aagactggat tctgtatgcg gagcaggaca gcaaccactg cttcatctcc actgtggaat gtaaggccgt catggttttc ttccactact gtgttgtgtc caactacttc tggctgttca tggaggccct gtaccctctc actctgctgg tggagacctt cttccctgaa agagataact tctactgcta caccatcatt ggctgggga cccaactgt gtgtgtgaca gtgtgggcta cgtgagact ctactttgat gacacaggct gctgggatat gaatgacagc acagctctgt ggtgggtgat caaagccct gtggttggt ctatcatggt taactttgtg cttttattg gcattatcgt catcctgtg cagaaacttc agtctccaga catgggaggc aatgagtcca gcattactt gcgactggcc cgttccacc ttgtgtctcat ccactattc ggaatccact acacagtatt tgccttctcc ccagagaaatg tcagcaaaaag ggaaagactc gtgtttgagc tggggctggg ctctctccag ggctttgtgg tggctgttct ctactgtttt ctgaaatggtg aggtacaagc ggagatcaag cgaataatggc gaagctggaa ggtgaacctg tacttcgctg tggacttcaa gcaccgacac ccgtctctgg ccagcagtgg ggtgaatggg ggcacccagc tctccatcct gagcaagagc agtcccaaa tccgcatgtc tggcctccct gctgacaatc tggccacctg agccatgtc ccct</p>	Homo sapiens
232	3844	Apelin Receptor	NM_005161	<p>atggaggaag gtgtgtatt tgacaactac tatggggcag acaaccagtc tgaagtgtgag A tacacagact ggaatccctc gggggccctc atccctgcca tctacatgtt ggtcttctc ctgggcacca cgggaaacgg tctgtgtctc tggaccgtgt ttcggagcag ccgggagaag aggcgtcag ctgatatctt cattgttagc ctggcgtgg ctgacctgac cttcgtggtg acgtgcccc tgtgggctac ctacacgtac cgggactatg actggccctt tgggaccttc ttctgcaagc tcagcagcta cctcatcttc gtcaacatgt acgccagcgt cttctgcctc accggcctca gcttcgaccg ctacctggcc atcgtgagc cagtggccaa tgcctggcgtg aggctgggg tcagcggggc cgtggccacg gcagttcttt ggtgctggc cgcctcctg gccatgctg tcatggtgtt acgcaccac ggggacttgg agaaccac taaggtgcag tgtaacatgg actactccat ggtggccact gtgagctcag agtgggacctg ggaagtgggc cttggggtct cgtccaccac cgtgggcttt gtggtgacct tcaccatcat gctgacctgt tacttcttca tcgccccaac catcgtggc cacttcgca aggaacgcac cgaaggacctg cggaagcggc gccggtgct cagcatcatc gtgtgtgtgg tggtagacct tgcctgtgc tggtatgccct accactggt gaagacgtg tacatctgg gcagcctgt gcaactggccc tgtgactttg acctcttct catgaacatc tccccact gcaactgcat cagctacgtc aacagctgcc tcaacccctt cctctatgcc tttttgacc cccgttccg ccaggcctgc acctccatgc tctgctgtgg ccagagcagg tgcaggga cctccacag cagcagtggg gagaagtcaag ccagctactc ttcggggcac agccaggggc ccggcccaa catgggcaag</p>	Homo sapiens

233	3844	Apelin Receptor	NP_005152.1	tag	ggtggagaac agatgcacga gaaatccatc ccctacagcc aggagaccct tgtggttgac	Homo sapiens
					MEEGGDFDNY YGADNQSECE YTDWKSSGAL IPAIYMLVFL LGTTGNGLVL WTVFRSSREK P RRSADIFIAS LAVADLTFV TLEPLWATYTY RDYDWPFGTF FCKLSSYLIF VNMVASVFCL TGLSFDRYLA IVRPVANARL RLRVSGAVAT AVIWLALALL AMPVMVLRIT GLENTITKVQ CYMDYSMVAT VSSEWAVEVG LGVSTTVGF VVPFTIMLTC YFFIAQTIAG HFRKERIEGL RKRRRLISII VLVVTFALC WNPYHLVKTL YMLGSLHWP CDFDLFLMNI FPYCTCISYV NSCLNPFLLYA FFDPRFRQAC TSMMLCCGQSR CAGTSHSSSG EKSASYSSGH SQGFGPNMGK GGEQHEKSI PYSQETLVVD	
234	3845	Chemokine- Like Receptor 1 (CMKLR1)	NM_004072		gaattcggca cgagtcaggg aagcagcccc ggcgggccagc agggagctca ggacagagca A ggctccctgg gaagcctcgg ggtgataggg gtgttcagc tgccggcgctc tgggggttca gagggggtc ttgaatgaac aaatgaatga actgcttctt gggcaaacag ccacagccag aggagcctgt gattggcaga aagaagccag ggtgtgaaag tctcccaac agcctcgagt ggcctgcagt cacagggaac cctcaggaag acctccggg cagagaccag agggaagccc atctctcag cagaactgct tggattttc taccagagg ctcagggctc tgcaacaatg atagcagaag ctgatggcat ctgagatct aggtgggac tagcacagca tcaattctac cactttctgt tggtcacagc aactcaccat gccagtgcag attcaagggg aggagaaata gagtcacatt ctgatggga ggctgacat agaatggagg atgaagatta caacacttcc atcagttacg gtgatgaata cctgattat ttgacttca ttgtggtttt ggaggactta tccccttgg aagccagggt gaccaggatc ttactggtg tggctacag catcgtctgc ttcctcggga ttctgggcaa tggcttgggt atcatcattg ccacctcaa gatgaagaag acagtgaaca tggctctggt cctcaacctg gcagtggcag atttctgtt caactcttc ctcccaatcc atataccta tgcgcgcatg gactaccat ggggtttcgg gacagccatg tgcaagatca gcaacttctc tctcaccac aacatgttca ccagcgtctt cctgctgacc atcaccagct ctgaccgctg catctctgtg ctccctcctg tctggtccca gaaccaccgc agcgttcgcc tggcttacat ggctgcatg gtcactcggg tccctggctt cttcttgagt tcccactctc tctcttctcc ggacacagcc aacctgcag ggaaaatata ctgcttcaac aacttcagcc tgtccacacc tgggtcttcc tegtggccca ctcactcca aatggaccct gtggggtata gccggacat ggtggtgact gtcaccgct tccctgtgg cttcctggtc ccagtcctca tcatcacagc ttgtacctc acctcgtgt gcaaaactga gcgcaaccgc ctggccaaga ccaagaagcc ctcaagatt attgtgacca tcatcattac cttcttctc tgctggtgcc cctaccacac actcaacctc ctgaggtctc accacactgc catgctgggc tgtgtcttca gcttgggttt gccctggcc actgcccctg ccattgcca cagctgcatg aacccattc tgtatgttt catgggtcag gacttcaaga agttcaaggt ggcctcttc tctcgcctgg tcaatgctct aagtgaagat acaggccact ctctcacc cagccataga agctttacca agatgtctc aatgaatgag aggacttca tgaatgagag ggagaccggc atgctttgat cctcactgtg gaacccctca atgactctc tcaaccagg gacacccaag gatattctt ctgaagatca aggcaagaac ctcttttagca tccaccaatt ttcactgcat tttgcattgg atgaacagtg ttttatgctg ggaattctagg gcctggaacc ctttcttct agtggacaga acatgctgtg ttccatacag ccttgacta gcaatttat cttcttggga ggccagcctt gactgactca aagcaaaaaa ggaagaattc	Homo sapiens

2235	3845	Chemokine- Like Receptor 1 (CMKLR1)	NP_004063.1	MEDEDYNTSI IIATFKMKKT MFTSVFLTI LHGKISCFNN IVCKLQRNRL ALAIANSCMN TSMNERETGM	SYGDEYDYL VNMVWFNLA ISSDRICISVL FSLSTPGSSS AKTKKPKKII PILYVFMGQD	DSIVVLEDLS VADELFNVFL LPVWSQNHRS WPTHSQMDPV VTIIITFFLC FKKFKVALFS	PLEARVTRIF PIHITYAAMD VRLAYMACMV GYSRHMVTV WCPYHTLNL RLVNALSEDT	LVVVYSIVCF YHWVFGTAMC IWLVAFFLSS TRFLCGFLVP ELHHTAMPGS GHSSYPHSRS	LGILGNGLVI KISNFELLIHN PSLIVFRDTAN VLIITACYLT VFSLGLPLAT FTKMSSMNER	P Homo sapiens
2236	3846	Sphingolipid Receptor Edg1	NM_001400	gtcggggggc cttcgcctcg cacaaaaagc cgccctctag accatggggc gtcaactatg gacaaggaga atcctggaga atgtactatt gctaacctgc cggaagggga attgagcgct ctcttccctgc atgggctgga aagcaactata ctgtactgca gaatctactc aacattttcca atcgtctctga gtgggctgca gctgtgtctca cgggcctttca ttcaagcgac cacccccaga tccttcttct ccaccccgat caagccagag tagagttagt tatatatctt agctcctaaa tccttgtctg gtgtgcactt ttcatacccc ctgggggttgt tggaagatg	gcgaagcgag gtcgcgggtt catcgaacca gagtagcgcc ccgctggtc ccggcattac actgacctcg cttgctgacc tctggccctc ggccaccacc ggccctgtca gtcgaaaaatg ctgctgggtc tgcgctgtcc caccacggtc cttggtcagg cagctctgag cgctgtctgg cgctgtctgg ctgtgacatc caaccccatc gtcctgtctg cggcatcgga ggacaaccca ggacaaccca gctgtccacc aaatctctgg ggagaatacg aatgcactgg agctttgatt ggccctctct gagatgtttt agatgtttgag agggatgccc tcttttactt tcttttactt atcatctata ggaggtgtaa	ccgtacagat ccgagggcct ccccctgaagc accccggtt aaggccacc gaaagctgaa gtgggtttctg ttctcatctg atttgaaaa tcaagctgt tacaagctca gctccggtg aaactccaca agctgtctca tctgtcttc ttcactctc actcggagcc aagtcgctgg gcaccgctct gcaccgctct ctcttcagag attacactc tgaccaacaa ggagatgcgt gaggagactc tgctggcaaa caattctctc tgtcttctgg aaacttcaac tggtcgtctg ctgccaggga ggagctgtctg tggtgtcggtg gaggggtgga gatcaggtcc cggcctggaa ccaaaaggtc agcattgtca tgcccccatg tgtttccaaac acacccacc tgatcatccc tatactttaa gcaaataggc tatgtttgag acaatgtccc gttatcagag acgtatgag	A Homo sapiens			

237	3846	Sphingolipid NP_001391.2 Receptor Edg1	catgtaagcg ggatcccggtt tttggaattt ggttgaagtc actttgattt ctttaaaaaa catcttttca atgaaatgtg ttaccatttc atatccattg aagccgaaat ctgcataagg aagcccactt tatctaaatg atattagcca ggtaccttgg tgtcctagga gaaacagaca agcaaaaaca agtgaatacc gaatggatta acttttgcaa accaaggag attcttagc aaatgagtct acaaaatag acatcgctct tcccactt ttgtgatgtt tatttcagaa tcttgtgtga ttcatattcaa gcaacaacat gttgtatttt gttgtgttaa agtactttt cttgattttt gaatgtattt gttcaggaa gaagtcattt tatggatttt tctaaccctg gttaactttt ctagaatcca cctcttgtg ccttaagca ttacttaac tggtagggaa cgccagaact tttaagtcga gctattcatt agatagtaat tgaagatatg tataaatatt acaaagaata aaaatatatt actgtctctt tagtatggtt ttcagtgcaa ttaaacccgag agatgtcttg tttttttaa aagaatagta tttaataggt tctgactttt tgtggatcat ttgacata gctttatcaa ctttaaca ttaataaact gatttttta aag	Homo sapiens
238	3847	Sphingolipid NM_005226 Receptor Edg3	LENIFVLLTI WKTKKFRPM YRDIIVRHYN YTGKLNISAD KENSIKLTSV VFILICCFII P EGSMFVALSA SVFSLAIAI ERYITMLKMK LHNGSNFRL FLLISACWVI SLILGGLPIM GWNCSIALSS CSTVLPYHK HYILFCTTVF TLLLSIVIL YCRIYSLVRT RSRRLTRKN ISKASRSSEK SLALLKTVII VLSVFIACWA PLFILLLLDV GCKVKTCUIL FRAEYFLVLA VLNSGTNPPII YTLTNKEMRR AFIRIMSCCK CPSGDSAGKF KRPIIAGMEF SRKSDNSSH PQKDEGDNPE TIMSSGNVNS SS atggcaactg cctcccgcc gctctccag ccggtcgagg ggaacagagac cctgcgggag A cattaccagt acgtggggaa gttgcggggc aggtcgaagg aggcctcga gggcagcacg ctcaccacgg tgcctctctt ggtcatctgc agcttcacg tcttgagaa cctgatggtt ttgatggcca tctgaaaaa caataaattt cacaaccgca tgtactttt cattggcaac ctggctctct ggcacctgct ggcgggcatc gcttacaagg tcaacattct gatgtctggc aagaagacgt tcagcctgtc tccacgggtc tggttctca gggaggggcag tatgtctgtg gcccttgggg cgtccacctg cagcttactg gccatcgcca tcgagcgga cttgacaatg atcaaaaatga ggccttaaga cgccaacaag aggcaccgag tcttctctct gatcgggatg tgctgggtca ttgccttcac gctggggcgc cctccattc tgggctggaa ctgcctggac aatctccctg actgctctac catcctgccc ctctactcca agaagtacat tgcctctgc atcagcatct tcacggccat cctggtgacc atcgtgacc tctacgcag catctacttc ctggtgaagt ccagcagccg taaggtggcc aaccacaaca actcggagcg gtccatggca ctgctggga cctgggtgat tgggtgagc gtgttcacg cctgctggc cccactcttc atcctctcc tcattgatgt ggcctgcagg gtgcagggtt gcccactctt cttcaaggct cagtggttca tctgtgtggc tgtgtcaca cccgcatga acccggtcat ctacacgctg gccagcaagg agatgcggcg ggcctcttc cgtctggtct gcaactgcct ggtcagggga cgggggggcc gcgctcacc catccagcct gcgtcgacc caagcagaag taaatcaagc agcagcaaca atagcagca ctctccgaag gttcagaatg acctgcccc caagaccccc tcactctgca tcatggacaa gaacgcagca cttcagaatg ggatcttctg caactga	Homo sapiens
239	3847	Sphingolipid NP_005217.1 Receptor Edg3	MATALPPRIQ PVRGNETLRE HYQVVGKLAG RLKEASEGST LTTVLFLVIC SFIVLENIMV P LIAIWNKKE HNRMYFFIGN LALCDLLAGI AYKVINIMSG KKTFSLSPTV WFLREGSMFV ALGASTCSLL AIAIERHLTM IKMRPYDANK RHRVFLIIGM CWLIAFTLGA LPILGNCLH	Homo sapiens

240	3848	C-C Chemokine Receptor 9	NM_006641	NLPDCSTILP LYSKKYIAFC ISIFTAILVT IVILYARIYF LVKSSSRKVA NHNNSERSMA LLRRTVVIVVS VFIACWSPLF ILFLIDVACR VOACPILFKA QWFIVLAVLN SAMNPVIYTL ASKEMRRAFF RLVCNCLVRG RGARASPIQP ALDPSRSKSS SSNNSHSPK VKEDLPHTDP SSCINDKNAA LQNGIFCN	gacctcatc ccaggcagag agcaacccag ctctttccc agacactgag agctgggtggt A gacctgtgtc ccaggcagag ttgcatcgcc ctccacaagc cctattccta acatggctga tgactatggc tctgaatcca catcttccat ggaagactac gttaaactca acttcaactga cttctactgt gagaaaaaca atgtcaggca gtttgcgagc catttctcc cacccttgta ctggctcgtg ttcatcgtgg gtgccttggg caacagtctt gttatccttg tctactggta ctgcacaaga gtgaagacca tgaccgacat gttccttttg aatttgcaa ttgctgacct cctctttctt gtcactcttc ccttctgggc cattgctgct gctgaccagt ggaagtcca gaccttcatt tgcaagggtg tcaacagcat gtacaagatg aacttctaca gctgtgtgtt gctgatcatg tgcatacagc tggacaggta cattgccatt gccaggcca tgagagcaca tacttgagg gagaaaaagg tttgttacag caaaatggtt gctttacca tctgggtatt ggcagctgct ctctgcatcc cagaaatctt atacagccaa atcaaggagg aatccggcat tgctatctgc acctgggtt acctagcga tgagagcacc aaactgaagt cagctgtctt gacctgaag gtcatctggt ggttcttctt tccctctgtg gtcattggctt gctgctatac catcatcatt cacacctga tacaagccaa gaagtcttcc aagcacaaa cctaaaaagt gacctcact gtctgacccg tcttctgctt gtctcagttt cctacaact gcattttgtt ggtgcagacc attgacgctt atgccatgtt cctctcttc cagagttgcc tgaacctgt tgacatctgc ttccaggta cccagacctt cgtctcttc cagagttgcc tgaacctgt tctctatgt tttgtgggtg agagattccg ccgggatctc gtgaaaaacc tgaagaactt gggttgcatc agccaggccc agtgggttct atttacaagg agagaggaa gcttgaagct gtcgtctatg ttgctggaga caacctcagg agcactctcc ctctgagggg tcttctctga ggtgcatgggt tcttttggaa gaaatgagaa atacagaaac agtttcccca ctgatgggac cagagagagt gaaagagaaa agaaaaactca gaaagggatg aatctgaact atatgattac ttgtagtccag aatttgcaa agcaaatatt tcaaaatcaa ctgactagt caggaggctg ttgattggct ctgactgtg atgcccga tcttcaagg aggactaagg accggcactg tgagacacc tggctttgccc actgcccga gcatcaatgc cgtgcctct ggagagccc ttggatttc tccatgcat gtgaacttct gtggcttcag ttctcatgct gctcttcca aaaggggaca cagaagcact ggctgctgct acagaccgca aaagcagaaa gttcgtgaa aatgtccatc ttgtggaaat ttctaccct gctcttgagc ctgataaacc atgccaggtc ttatagatc ctgactaga accttccag gcaatctcag acctaatctt cttctgtctt cctgtttctg ttctgggcca gtgaaggctc ttgttctgat ttgaaacga tctgcaggtc ttgccagtga accctggac aactgaccac acccaaaagg catccaaagt ctgttggctt ccaatccatt tctgtgtcct gctggaggtt ttaacctaga caaggattcc gcttattcct tggtatggtg acagtgtct tccatggcct gagcaggtag atataacag ctgggtctgc aggagccagc cttggccctg ttgtaggctt gttctgttga gtggcacttg ctttgggtcc accgtctgtc tgctccctag aaaatgggct gttctttttg gccctcttct tctgagggc cactttattc tgaggaatac agtgagcaga tatgggcagc agccaggtag ggcaagggg tgaagcgcag gccttgctg aaggctattt acttccatgc ttctctttt ctactctat	Homo sapiens
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241	3848	C-C Chemokine Receptor 9	NP_006632.2	SMEDYVNFN FTDFYCEKNN VRQFASHFLP PLYWLVFIVG ALGNSLVILV P YWYCTRVKTM TDMFLNLAI ADLFLVTLF FWAIAAADQW KFQTFMCKV NSMYKNNFYS CVLLIMCISV DRYIAIAQAM RAHTWREKRL LYSKMVCFTI WVLAALCIP EILYSQIKEE SGIAICTMVY PSESTKLKS AVLTLKVLG FFLPFVVMAC CYTIIHTLI QAKKSKHKA LKVTITVLT VFLSQFPYNC ILIVQITDAY AMFISNCAVS TNIDICFQVT QTIAFFHSCL NPVLYVFVGE RFRDLVKTL KNLGCSQAQ WVSFTRREGS LKLSSMLLET TSGALS L	Homo sapiens
242	3849	G Protein- Coupled Receptor GPR1	NM_005279	atggaagatt tggaggaac attattgaa gaatttgaaa actattccta tgacctagac A tattactctc tggagtgaga ttggaggag aaagtccagc tgggagttgt tcactgggtc tccctgggtg tataattgtt ggcctttgtt ctgggaattc caggaaaatgc catcgctatt tggttcacgg ggcicaagt gagaagaca gtcaccactc tgtggttctt caatctagcc attgcggatt tcaattttct tctctttctg cccctgtaca tctctatgt ggccatgaat ttccactggc cctttggcat ctggctgtgc aaagccaatt ccttcactgc ccagttgaac atggttgcca gtgtttttt cctgacagt atcagcctgg accactatat ccacttgatc catcctgtct tatctcatcg gcctgaacc ctcaagaact ctctgattgt cattatatc atcggcttt tggcttctct aatggcgggt ctgcacctgt acttccggga cacttgagg ttcaataatc atactctttg ctataacaa tttcagaagc atgacctga cctcactttg atcaggcacc atgttctgac ttgggtgaaa ttatcatatg gctatctctt cctttgcta acaaatagta ttgtctact ttgtctcatc ttcaaggta agaagcgaac agtccctgac tccagtggc atttctggac aattctggtt gtggttgggt cctttgtggt ttgctggact ccttatcacc tgtttagcat ttgggagctc accattcacc acaatagcta ttcccaccat gtgatgcagg ctggaatccc cctctccact ggtttggcat tcccaatag ttgcttgaac cccatcctt atgtccta atgtccta tagtaagaag ttccaagctc gcttccgggt ctcagttgct gagatactca agtacacact gtgggaagtc agctgttctg gcacagtga tgaacagctc aggaactcag aaaccaagaa tctgtgtctc ctggaacaag ctcaataa	Homo sapiens
243	3849	G Protein- Coupled Receptor GPR1	NP_005270.1	MEDLEETLFE EFENYSYDLD YYSLESDLEE KVQLGVVHWV SILVYCLAFV LGIPGNAIVI P WFTGLKWKKT VTTLWFLNLA IADFI LLLFL PLYISYVAMN FHWPFGLWLC KANSFTAQLN MFASVFFITV ISLDHYIHLI HPVLSHRHRT LKNSLIVIF IWLLASLIGG PALYFRDIVE FNNHTLCYNN FQKHDPDLTL IRHVLTVWK FIIGYLFLL TMSICYLC LI FKVKRTVLI SSRHEFTILV VVAFVVCWT PYHLFSIWEL TIHNSYSYSH VMOAGIPLST GLAFLNSCLN PILYVLISK FQARFRSSVA EILKYTLWEV SCSTVSEQL RNSETKNLCL LETAQ	Homo sapiens
244	3850	G Protein- Coupled Receptor 10 (GPR10)	NM_004248	atggcctcat cgaccactcg gggccccagg gtttctgact tatttctg gctgcgccg A gggttcacaa ctcccgccaa ccagagcgca gaggcctcg cgggcaacgg gtcggtggct ggcgcgagac cctccagcgt cagcccttc cagagcctgc agctggtgca tcaactgaag gggctgatcg tgctgctcta cagcgtcgtg gtggtcgtgg gctggtggg caactgcctg ctggtgctgg tgatcgcgcg ggtgcgccg ctgcacaaag tgacgaact cctcatcgcc aacctggcct tgtccgacgt gctcatgtgc accgcctgog tgcgctcac gctggcctat	Homo sapiens

245	3850	G Protein- Coupled Receptor 10 (GPR10)	NP_004239.1	<p>gccttcgagc cagcgggctg ggtgttcggc gggggcctgt gccacctggt cttcttctctg cagccggtca ccgtctatgt gtcggtgttc acgtcacca ccctgcagc ccatgcgtac gtcgtgctgg tgcaccgct gaggcggcgc atctcgctgc gcctcagcgc cactatcgtg ctggccatct gggcgctgtc cgcgtgctg cgcgtgccc cgcgctgca cactatcac gtgagctca agccgacga cgtgcgcctc tgcgagagt tctggggctc ccaggagcgc cagcccgagc tctacgctg gggcgctgctg ctggtcacct acctgctccc tctgctggtc atctctctgt ctacgtccg ggtgtcagtg aagctcgca accgctggt gccgggctgc gtgaccaga gccaggcga ctgggaccgc gtcggcgcc ggcgcacct ctgcttgctg gtggtggtcg tgggtggtt cgcgctctgc tggctgcgc tgcaagtctt caacctgctg cgggacctcg accccacgc catcgacct tacgctttg gctggtgca gctgctctgc cactggctcg ccctgagttc ggctgtctac aaccttca tctacgctg gctgcacgac agctccgcg aggagctgc caaactgttg gtcgctggc ccgcaagat agcccccat ggccagaata tgaccgtcag cgtggtcatc tga</p>	Homo sapiens
246	3851	G Protein- Coupled Receptor GPR12	NM_005288	<p>atgaatgaag acctgaaggt caatttaagc gggctgcctc gggattattt agatgccgt A gctcggaag acatctcggc tgctgtctcc tcccgggttc ctgcgctaga gccagagcct gagctgtag tcaacccctg ggacattgtc ttgtgtacct cgggaacctt catctcctgt gaaatgccca ttgtggtcct tcatctctc cacaacccca gctgcgagc acctatgttc ctgctaatag gcagcctggc tcttgcagac ctgctggcgc gattggact catcaccaat ttgtttttg cctacctgct tcagtcagaa gccaccaagc tggtcacgat cggcctcatt gtgcctctt tctctgctc tgctgcagc ttgtggcta tcactgtga cgcctacctc tcactgtact acgctctgac gtaccttcg gagaggacgg tcacgtttac ctatgtcatg ctcgtcatgc tctgggggac ctccatctgc ctgggctgc tgcctgtcat gggctggaac tgctcccgag acgagtcac ctgcagcgtg gtcagaccgc tcaccaagaa caacggggc atctctcgg tgccttctc ctctatgtt cgcctcatgc ttcagctca catccagatc tgtaagattg tgatgagga cgcctcatc atagcctgc agcaccatt cctggccacg tcgcactatg tgaccaccg gaaagggtc tccacctgg ctatcatctt ggggacgttt gctgctgtg gtagtgcctt caccctctat tccctgatag cggattacac ctaccctcc atctatactt accgcaacct cctgcccgc acctacaat ccatcataa cctgtcata tatgctttca gaaaccaaga gatccagaaa cgcctctgtc tcaattgctg cggctgcatc ccgtccagtc tcgcccagag agcgcgtcg ccaagtatg ttag</p>	Homo sapiens
247	3851	G Protein- Coupled Receptor GPR12	NP_005279.1	<p>mnedlkwnls glprdyldaa aaenisaaav srpavepelp elvnpwdiv lctsgtlisc P enaivvliif hnpfslrapmf lligslalad llagllitn fvfaillqse atklvtigli vasfsasvcs llaivdrryl slyaltvhs ertvftvym lvmlwgt sic lgllpvmgwn clrdestcsv vrpltknnaa ilsvsflmf almlqlyiqi ckivmrhaqo ialqhhflat</p>	Homo sapiens

248	3852	CX3C Chemokine Fractalkine Receptor 1	NM_001337	SHYVTRKGV STLAIIIGTF AACWMPFTLY SLIADYTPS IYTYATLLPA TYNSIINPVI YAERNQEIQK ALCLICGCI PSSLAQRARS PSDV ggggcagatc cagattccct ttgcagtgcca cgccaggcct tcaccatgga tcagttccct A gaatcagtgga cagaaaactt tgagtagcat gattgggtg aggcctgtta tatgggggac ctgtgggtct ttgggactgt gttcctgtcc atatttact ccgtcatctt tgccattggc ctgtggggaa atttgggtgt agtgtttgct ctcaccaaca cgaagaagcc caagagtgtc accgacattt acctcctgaa cctggccttg tctgatatgc tgtttgtagc cactttgccc ttctggactc actatttgat aaatgaaaag ggcctccaca atgccatgtg caaattcact accgctttct tcttcategg ctttttttgg agcatattct tcataccgt catcagcatt gatagtacc tggccatcgt cctggccgct aactccatga acaaccggac cgtgcagcat ggcgtcacca tcagcctagg cgtctgggca cgagccattt tgggtggcag accccagttc atgttcacaa agcagaaaaga aaatgaatgc atgtgtgact acccggagt ccttcaggaa atttggcccc tgcctcgcaa tgtggaaa caatttcttg gttcctact cccctgtctc attatgagtt attgctactt cagaaatcat cagacgtgtt ttctctgcaa gaaccacaa aaagccaaaag ccattaaact gatccttctg tgggtcatcg tgttttctct cttctggaca ccctacaaag ttatgattt cctggagacy cttaaagctct atgacttctt tcccagtgt gacatgagga aggatctgag gctggccctc agtgtgactg agacggttg attagccat tgttgcctga atcctctcat ctatgcattt gctggggaga agttcagaag atacccttac cacctgtatg gaaaatgcct ggctgtcctg tgtggcgctg cagtcacagt tgatttctcc tcacttgaat cacaaggagg caggcatgga agtgttctga cgagcaattt tacttaccac acgagtgatg gagatgcatt gctccttctc tgaagggaat cccaaagcct tgtgtctaca gagaacctgg agttcctgaa cctgatgctg actagtgagg aagatttttg ttgttatttc ttacaggcac aaaatgatgg acccaatgca cacaacaaa ccctagagtg ttgttgagaa ttgtgctcaa aatttgaaga atgaacaaat tgaactcttt gaatgacaaa gagtagacat ttctcttact gcaaatgtca tcagaaactt ttggtttgca gatgacaaaa attcaactca gactagtta gtaaatgag ggtgtgaat attgttcata ttgtggcaca agcaaaaagg gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta NP_001328.1 MDQFPESVTE NFEYDDLAE CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LVVFALTNK P KPKSVTDIYL LNLALSDLF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSMMN RTVQHGVTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVTNFLGF LLPLLLMSYC YFRIQTLS CNHKKAKAI KLILLVIVF FLEWTPYNVM IFLETCLKYD FFPSCDMRKD LRLALSVTET VAFSHCCCLNP LIYAFAGEKF RRYLHYLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NFTYHTSDGD ALLLL atggaccag aagaaacttc agttatttg gatattact atgctacgag cccaaactct A gacatcaggg agaccactc ccattgtctt tacactctg tcttctctcc agtcttttac acagctgtgt tccctgactg agtgcctggg aacctgttct tcactggagc gttgcatttc aaacccggca gccgaagact gatcgacatc ttatcatca atctggctgc ctctgacttc atttttcttg tcacattgccc tctctgggtg gataaagaag catctctagg actgtggagg acgggctcct tccctgtgcaa agggagctcc tacatgatct ccgtcaatat gcactgcagt gtcctcctgc tcaattgcat gagtgttgac cgttactcgg ccattgtgtg gccagtcgta tccaggaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc	Homo sapiens
249	3852	CX3C Chemokine Fractalkine Receptor 1	NP_001328.1	SHYVTRKGV STLAIIIGTF AACWMPFTLY SLIADYTPS IYTYATLLPA TYNSIINPVI YAERNQEIQK ALCLICGCI PSSLAQRARS PSDV ggggcagatc cagattccct ttgcagtgcca cgccaggcct tcaccatgga tcagttccct A gaatcagtgga cagaaaactt tgagtagcat gattgggtg aggcctgtta tatgggggac ctgtgggtct ttgggactgt gttcctgtcc atatttact ccgtcatctt tgccattggc ctgtggggaa atttgggtgt agtgtttgct ctcaccaaca cgaagaagcc caagagtgtc accgacattt acctcctgaa cctggccttg tctgatatgc tgtttgtagc cactttgccc ttctggactc actatttgat aaatgaaaag ggcctccaca atgccatgtg caaattcact accgctttct tcttcategg ctttttttgg agcatattct tcataccgt catcagcatt gatagtacc tggccatcgt cctggccgct aactccatga acaaccggac cgtgcagcat ggcgtcacca tcagcctagg cgtctgggca cgagccattt tgggtggcag accccagttc atgttcacaa agcagaaaaga aaatgaatgc atgtgtgact acccggagt ccttcaggaa atttggcccc tgcctcgcaa tgtggaaa caatttcttg gttcctact cccctgtctc attatgagtt attgctactt cagaaatcat cagacgtgtt ttctctgcaa gaaccacaa aaagccaaaag ccattaaact gatccttctg tgggtcatcg tgttttctct cttctggaca ccctacaaag ttatgattt cctggagacy cttaaagctct atgacttctt tcccagtgt gacatgagga aggatctgag gctggccctc agtgtgactg agacggttg attagccat tgttgcctga atcctctcat ctatgcattt gctggggaga agttcagaag atacccttac cacctgtatg gaaaatgcct ggctgtcctg tgtggcgctg cagtcacagt tgatttctcc tcacttgaat cacaaggagg caggcatgga agtgttctga cgagcaattt tacttaccac acgagtgatg gagatgcatt gctccttctc tgaagggaat cccaaagcct tgtgtctaca gagaacctgg agttcctgaa cctgatgctg actagtgagg aagatttttg ttgttatttc ttacaggcac aaaatgatgg acccaatgca cacaacaaa ccctagagtg ttgttgagaa ttgtgctcaa aatttgaaga atgaacaaat tgaactcttt gaatgacaaa gagtagacat ttctcttact gcaaatgtca tcagaaactt ttggtttgca gatgacaaaa attcaactca gactagtta gtaaatgag ggtgtgaat attgttcata ttgtggcaca agcaaaaagg gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta NP_001328.1 MDQFPESVTE NFEYDDLAE CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LVVFALTNK P KPKSVTDIYL LNLALSDLF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSMMN RTVQHGVTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVTNFLGF LLPLLLMSYC YFRIQTLS CNHKKAKAI KLILLVIVF FLEWTPYNVM IFLETCLKYD FFPSCDMRKD LRLALSVTET VAFSHCCCLNP LIYAFAGEKF RRYLHYLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NFTYHTSDGD ALLLL atggaccag aagaaacttc agttatttg gatattact atgctacgag cccaaactct A gacatcaggg agaccactc ccattgtctt tacactctg tcttctctcc agtcttttac acagctgtgt tccctgactg agtgcctggg aacctgttct tcactggagc gttgcatttc aaacccggca gccgaagact gatcgacatc ttatcatca atctggctgc ctctgacttc atttttcttg tcacattgccc tctctgggtg gataaagaag catctctagg actgtggagg acgggctcct tccctgtgcaa agggagctcc tacatgatct ccgtcaatat gcactgcagt gtcctcctgc tcaattgcat gagtgttgac cgttactcgg ccattgtgtg gccagtcgta tccaggaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc	Homo sapiens
250	3853	G Protein- Coupled Receptor GPR15	NM_005290	SHYVTRKGV STLAIIIGTF AACWMPFTLY SLIADYTPS IYTYATLLPA TYNSIINPVI YAERNQEIQK ALCLICGCI PSSLAQRARS PSDV ggggcagatc cagattccct ttgcagtgcca cgccaggcct tcaccatgga tcagttccct A gaatcagtgga cagaaaactt tgagtagcat gattgggtg aggcctgtta tatgggggac ctgtgggtct ttgggactgt gttcctgtcc atatttact ccgtcatctt tgccattggc ctgtggggaa atttgggtgt agtgtttgct ctcaccaaca cgaagaagcc caagagtgtc accgacattt acctcctgaa cctggccttg tctgatatgc tgtttgtagc cactttgccc ttctggactc actatttgat aaatgaaaag ggcctccaca atgccatgtg caaattcact accgctttct tcttcategg ctttttttgg agcatattct tcataccgt catcagcatt gatagtacc tggccatcgt cctggccgct aactccatga acaaccggac cgtgcagcat ggcgtcacca tcagcctagg cgtctgggca cgagccattt tgggtggcag accccagttc atgttcacaa agcagaaaaga aaatgaatgc atgtgtgact acccggagt ccttcaggaa atttggcccc tgcctcgcaa tgtggaaa caatttcttg gttcctact cccctgtctc attatgagtt attgctactt cagaaatcat cagacgtgtt ttctctgcaa gaaccacaa aaagccaaaag ccattaaact gatccttctg tgggtcatcg tgttttctct cttctggaca ccctacaaag ttatgattt cctggagacy cttaaagctct atgacttctt tcccagtgt gacatgagga aggatctgag gctggccctc agtgtgactg agacggttg attagccat tgttgcctga atcctctcat ctatgcattt gctggggaga agttcagaag atacccttac cacctgtatg gaaaatgcct ggctgtcctg tgtggcgctg cagtcacagt tgatttctcc tcacttgaat cacaaggagg caggcatgga agtgttctga cgagcaattt tacttaccac acgagtgatg gagatgcatt gctccttctc tgaagggaat cccaaagcct tgtgtctaca gagaacctgg agttcctgaa cctgatgctg actagtgagg aagatttttg ttgttatttc ttacaggcac aaaatgatgg acccaatgca cacaacaaa ccctagagtg ttgttgagaa ttgtgctcaa aatttgaaga atgaacaaat tgaactcttt gaatgacaaa gagtagacat ttctcttact gcaaatgtca tcagaaactt ttggtttgca gatgacaaaa attcaactca gactagtta gtaaatgag ggtgtgaat attgttcata ttgtggcaca agcaaaaagg gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta NP_005290 MDQFPESVTE NFEYDDLAE CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LVVFALTNK P KPKSVTDIYL LNLALSDLF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSMMN RTVQHGVTIS LGVWAAAILV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVTNFLGF LLPLLLMSYC YFRIQTLS CNHKKAKAI KLILLVIVF FLEWTPYNVM IFLETCLKYD FFPSCDMRKD LRLALSVTET VAFSHCCCLNP LIYAFAGEKF RRYLHYLYGK CLAVLCGRSV HVDFSSSESQ RSRHGSVLSS NFTYHTSDGD ALLLL atggaccag aagaaacttc agttatttg gatattact atgctacgag cccaaactct A gacatcaggg agaccactc ccattgtctt tacactctg tcttctctcc agtcttttac acagctgtgt tccctgactg agtgcctggg aacctgttct tcactggagc gttgcatttc aaacccggca gccgaagact gatcgacatc ttatcatca atctggctgc ctctgacttc atttttcttg tcacattgccc tctctgggtg gataaagaag catctctagg actgtggagg acgggctcct tccctgtgcaa agggagctcc tacatgatct ccgtcaatat gcactgcagt gtcctcctgc tcaattgcat gagtgttgac cgttactcgg ccattgtgtg gccagtcgta tccaggaaat tcagaaggac agactgtgca tatgtagtct gtgccagcat ctggtttatc	Homo sapiens

251	3853	G Protein- Coupled Receptor GPR15	NP_005281.1	MDPEETSIVYL KPGSRRLIDI VLLITCMSVD PYCAEKKATP KIIFIVVAAF IYYIFDSYIR gaaagagaca ctggaacta acactgtttc agtggaagt agtatcatgc cccttttaac tatcttcata caagaagaga tataatgact gtacttctgc tcttgccctt acttaaaaaac cacgaccacc ctgacctcaag actgacattt tcataatctc aaggatcatc tttcgcttct caccttctct acaatttccag cagaaaaagt atgaataata cgtcaatgga ttatcttcat	DYYATSPNS FIINLAASDF RYLAIVWPVV IKLIWSLVAL LVSWLFPNTF RAIVHCLCPC aagcagcaat ctttttaaag cagaaaagac ctgaaaaaat ctaccaacaa agctcacatc attggattat ttaccctttc cagatttctg acttgctgtg cctctgctac atttctgaca tttttcttga cttcacggca atcacgctgc ctgatgctgg atgaacctca gtctcgagtca ttccgatctg	DIRETHSHVP IFLVTPLMW SRKFRRTDCA ITFCYCCJAR QELAIIVSGLR LKNYDFGSST taaagtacgc caacaaaaga gaagaaagac ctcatctctc gctgtaaaat cagatgaata ttgttaacat ccatctatat gaatgtttta gagctctcac acagatacat ggtctgtgctg cctgtgctgg tgctctataa tcatctatct ttcctttgtt ggactgtctaa ggatgctgtg gaacggggga gcacgtgtct ttagtgctat gtagtctacg atttcaatcc atactatatc aaaaaaaaa	YTSVFLPVFY DKEASLGLMR YVVCASLWFI IVTCYCCJAR QEHYLPSSAIL ETSDSHLTKA ccagcaccaa gtctaaaaca gaagataatc acacagactt gatcacctcg tataatgata cactgattta ggtcattgta agccattgtg gtctgtggga agaccagat aaaagtgtgtg catcatgatt gctgaacccc gctcgtctgc tttatgcctt aaagtcaagg aatccccggg aatccccggg gctataacct gctataacct gtcactaagc catcaaat agtcctttt	TAVFLTGVLG TGSFLCKGSS SCLLGLPTLL KLCAHYQQSG QLGMEVSGPL LSTFIHAEDF ctccgacgcc aacaatcaag aaagataacc ttgatggaca aatcaacctgt gcccttgtct tgggttttca gcattagtgg gatgaatggc ccaagcattg cagccgaagt gtctggataa tgacctgac aaagactcca aacgtgctga aacgtgctga gggtgctact aaagtcaagg tccacatctg aatccccggg tccacatctg tcgtttcaaa aatataacct gtgaaatgctg cacttcaact cacttcaact ctcttgaaaa ataataattca	Homo sapiens
252	3854	G Protein- Coupled Receptor GPR18	NM_005292	gaaagagaca ctggaacta acactgtttc agtggaagt agtatcatgc cccttttaac tatcttcata caagaagaga tataatgact gtacttctgc tcttgccctt acttaaaaaac cacgaccacc ctgacctcaag actgacattt tcataatctc aaggatcatc tttcgcttct caccttctct acaatttccag cagaaaaagt atgaataata cgtcaatgga ttatcttcat	DIPEETSPNS FIINLAASDF RYLAIVWPVV IKLIWSLVAL LVSWLFPNTF RAIVHCLCPC aagcagcaat ctttttaaag cagaaaagac ctgaaaaaat ctaccaacaa agctcacatc attggattat ttaccctttc cagatttctg acttgctgtg cctctgctac atttctgaca tttttcttga cttcacggca atcacgctgc ctgatgctgg atgaacctca gtctcgagtca ttccgatctg	DIRETHSHVP IFLVTPLMW SRKFRRTDCA ITFCYCCJAR QELAIIVSGLR LKNYDFGSST taaagtacgc caacaaaaga gaagaaagac ctcatctctc gctgtaaaat cagatgaata ttgttaacat ccatctatat gaatgtttta gagctctcac acagatacat ggtctgtgctg cctgtgctgg tgctctataa tcatctatct ttcctttgtt ggactgtctaa ggatgctgtg gaacggggga gcacgtgtct ttagtgctat gtagtctacg atttcaatcc atactatatc aaaaaaaaa	YTSVFLPVFY DKEASLGLMR YVVCASLWFI IVTCYCCJAR QEHYLPSSAIL ETSDSHLTKA ccagcaccaa gtctaaaaca gaagataatc acacagactt gatcacctcg tataatgata cactgattta ggtcattgta agccattgtg gtctgtggga agaccagat aaaagtgtgtg catcatgatt gctgaacccc gctcgtctgc tttatgcctt aaagtcaagg aatccccggg aatccccggg gctataacct gctataacct gtcactaagc catcaaat agtcctttt	TAVFLTGVLG TGSFLCKGSS SCLLGLPTLL KLCAHYQQSG QLGMEVSGPL LSTFIHAEDF ctccgacgcc aacaatcaag aaagataacc ttgatggaca aatcaacctgt gcccttgtct tgggttttca gcattagtgg gatgaatggc ccaagcattg cagccgaagt gtctggataa tgacctgac aaagactcca aacgtgctga aacgtgctga gggtgctact aaagtcaagg tccacatctg aatccccggg tccacatctg tcgtttcaaa aatataacct gtgaaatgctg cacttcaact cacttcaact ctcttgaaaa ataataattca	Homo sapiens

253	3854	G Protein- Coupled Receptor GPR18	NP_005283.1	<p>MMNVALVDLI FIMTLPERME YKIAALVFYS CIFIIGLFVN ITALWVFSC TTKKRTVTIY P</p> <p>MAIVQPKYAK ELKNTCKAVL ACVGWIMTL TTTTPLLILY KDPDKDSTPA TCLKISDIIY</p> <p>LKAVNVLNLT RLTFEFLIPL FIMIGCYLVI IHNLLHGRS KLKPKVKEKS IRIITLLVQ</p> <p>VLVCFMPEFI CFAFLMLGTG ENSYNPWGAF TTFMLNLSTC LDVILYYIVS KQFOARVISV</p> <p>MLYRNYLRSM RRSFRSGSL RSLSNINSEM L</p>	Homo sapiens
254	3855	G Protein- Coupled Receptor GPR19	NM_006143	<p>aattaagaga aaaaaagtga atatgggttt tgctcacaga atggataaca gcaagccaca A</p> <p>tttgattatt cctacacttc tgggtgcccc ccaaaacccg agtgcactg aaacagccac</p> <p>acctctgcca agccaatacc tgatggaatt aagtggagag cacagttgga tgagcaacca</p> <p>aacagacctt cactatgtgc tgaacacccg ggaagtggcc acagccagca tctctttgg</p> <p>gattctgtgg ttgttttcta tctctggcaa tctctgggtt tggttggtca tccataggag</p> <p>taggaggact cagttctacca ccaactactt tgggtgtctc atggcatgtg ctgaccttct</p> <p>catcagcgtt gccagcacgc ctttctgctc gctccagttc accactggaa ggtggacgct</p> <p>gggtagtcca acgtgcaagg ttgtgcgata ttttcaatat ctcactccag gtgtccagat</p> <p>ctacgttctc cttctccatc gcatagaccg gttctacacc atcgtctatc cctgagcgtt</p> <p>caaggtgtcc agagaaaaag ccaagaaaaat gattgcggca tctgtgatct ttgatgcagg</p> <p>ctttgtgacc cctgtgctct ttttctatgg ctccaaactgg gacagtcatt gtaactatct</p> <p>cctccccctc tcttggaag gcactgccta cactgtcatc cacttcttgg tgggctttgt</p> <p>gattccatct gtccctcataa ttttatatta ccaaaaggct ataaaaataa tttggagaat</p> <p>agggcacagt ggccgaacgg tgaggaggac aatgaacatt gtccctcgga caaagtga</p> <p>aactatcaag atgttctcta ttttaaatct gttgtttttg cctcctggc tgccttttca</p> <p>tgtagctcag ctatggcacc cccatgaaca agactataag aaaagttccc ttgttttccac</p> <p>agctatcaca tggatatcct ttagttcttc agcctctaaa cctactctgt attcaattta</p> <p>taatgccaat tttcggagag ggaatgaaga gactttttgc atgtcctcta tgaatgttta</p> <p>ccgaagcaat gcctatacta tcacaacaaag ttcaaggatg gccaaaaaaa actacgttgg</p> <p>catttcagaa atcccttcca tggccaaaac tattaccaaa gactcgatct atgactcatt</p> <p>tgacagagaa gccaaaggaaa aaaagcttgc ttggcccatc aactcaaatc caccataatc</p> <p>ttttgtctaa gttctcattc ttccaattgt tatgcaccag agattaaaaa gctttaacta</p> <p>taaaaaacaga agctatttacc atatttgttt tcaactcaact ttccaaagga atgtttttat</p> <p>tttgtaaaat gcattcattt gtttactgt</p>	Homo sapiens
255	3855	G Protein- Coupled Receptor GPR19	NP_006134.1	<p>MVFAHRMDNS KPHLIPTLL VPLQNRCTE TATPLPSOYL MELSEHSWM SNQTDLHYVL P</p> <p>KPGEVATASI FFGILWLFSI FGNSLVCLVI HRSRRTQSTT NYFVSMACA DLLISVASTP</p> <p>FVLLQFTTGR WTLGSATCKV VRYFYLTTPG VQIYVLLSIC IDRFYTIYVP LSFKVSREKA</p> <p>KKMIAASWIF DAGFVTPVLF FYGSNWDSDHC NYFLPSSWEG TAYTVIHFLV GFVIPSVLII</p> <p>LFYQKVIKYI WRIGTDGRTV RRTMNIPTPT KVKTIKMFELI INLLFLLSWL PFHVAQLMHP</p> <p>HEQDYKKSLL VFTAITWISF SSSASKPTLY SIYNANFRRG MKETFCMSSM KCYRSNAYTI</p> <p>TTSSRMAKNK YVGISEIPSM AKTITKDSIY DSFDREAKEK KLAWPINSNP PNTFV</p>	Homo sapiens
256	3856	G Protein- Coupled Receptor GPR2/CCR10	NM_016602	<p>agagatgggg acggagagcca cagagcaggtt ttcctggggc cattactctg gggatgaaga A</p> <p>ggacgcatac tcggctgagc cactgcccga cctttgctac aagcccgatg tccaggcctt</p> <p>cagccggggc ttccaaacca gtgtctccct gaccgtggct gcgctgggtc tggccggcaa</p> <p>tggcctggct ctggccaccc acctggcagc ccgacgcgca gcgcgctcgc ccacctctgc</p>	Homo sapiens

257	3856	G Protein- Coupled Receptor GPR2/CCR10	NP_057686.1	<p>ccacctgtctc cagctggccc tggccgacct cttgtgtgcc ctgactctgc cttcgcgggc</p> <p>agcaggggct cttcagggct ggagtctggg aagtgccacc tgcgcacca tctctggcct</p> <p>ctactcggcc tcttccacg cggcttctt cttctggcc tgtatcagc cgcacgcta</p> <p>cgtggccatc ggcgagcgc tccagccgg gcccgggcc tccactccc ggcggcaca</p> <p>cttggtctcc gtcacgtgtt ggctgtgtc actgtctctg gcgtgctg cgtgtctctt</p> <p>cagccaggat ggcgagcgg aagcccaacg acgctgtgc ctcattctcc cgcaggccct</p> <p>cacgcagacg gtgaagggg cagcgccctt ggcgcagggt gccctgggct tgcgctgcc</p> <p>gctgggctc atgtagcct gctacgcct tctgggcgc acgtgtctg cgcacgggg</p> <p>gcccagcgc cggcgtgcg tgcgctcgt ggtgctctg gtggcgccct tegtgtgtct</p> <p>gcagctgcc tacagcctc cctgtctgt gatactgcc gatctactg ctgcgcgca</p> <p>gcggagctgc cctgccagca aacgaagga tgcgcactg ctggtgacca gggcttggc</p> <p>cctgcggcgt tgtggcctc atccgttct ctacgcttc ctggccctgc gttccgcca</p> <p>ggacctcgg agcgtgtctc ggggtggag ctgcctcctc gggcctcaac cccgcgcgg</p> <p>ctgccccgc cggccccgc tttctcctg ctacgctcc acggagacc acagtctctc</p> <p>ctgggacaac taggctgcg aatctagag agggggcagg ctgaggtctg tggaaagg</p> <p>gagtaggtgg gggaaacctg agaaaggc agggacctaa agggactacc tctgtgctt</p> <p>gccacattaa attgataaca tggaaatgaa aaaaaaaa aaaa</p>	Homo sapiens
258	3857	G Protein- Coupled Receptor GPR20	NM_005293	<p>atgccctctg tgtctccag gggggccctc gccggggcag tccccaatgc caccgactg A</p> <p>acaacagtgc ggaccaatgc cagggggctg gaggtgccc tgttccacct gtttgcggg</p> <p>ctggacgagg agctgcctg cacttccca ggcctgtgc tggcgctgat ggcgtgac</p> <p>ggagccatct tctggcagg gctgtgtctc aacgggtgg cgtgtactg cttctgtgc</p> <p>cgcacccggg ccaagacac ctagtctac tacacctca acctgtgtt gaccgatcta</p> <p>ctggtaggc tgtccctgccc cagcgcttc gctgtgtact acggcgccag ggcgtgctg</p> <p>cgtgtgctt tcccgacct cctcggttac tctctcaaca tgcactgctc cactctctc</p> <p>ctcacctgca tctgcgtgga cgcctacctg gccatctgct ggcggaaag tcccgccgc</p> <p>tgcggcagc ctgctctgctc cagggccgtg tgcgcttgc tgtgtgtgc cgcgggtg</p> <p>gtcacctgt cgtgtctgg cgtgacagg agccggccct gctgcctgt ctttgcgtg</p> <p>actgtctctg agttctctg gccctgctg gtcacagcg tgtttaccg cgcacatctg</p> <p>tgtgactgt cgcggccgg tctgtctcc caggtgctt agcgccgtg ggcggccatg</p> <p>cagctctgc tcacgggtgt ctcattctt cctgtgtct tcaagccctt ccagccgc</p> <p>caagtgcgc tggcgtgtg gccgacatg ccacaccaca ctagcctgt ggtctacc</p> <p>gtggccgtga cctcagcag cctcaacagc tgcattggac ccatctcta gtgtctgtc</p> <p>accagtgtt tccaggccac cgtccaggc cttctggcc agcacggaga gcgtgagccc</p> <p>agcagcgggt acgtggctcag catgcacagg agctccagg gctcaggccc tcatcacatc</p>	Homo sapiens

259	3857	G Protein-Coupled Receptor GPR20	NP_005284.1	ctcagtgccg gccctcacgc cctcacccag gccctggcta atggggccga ggcttag	Homo sapiens
260	3858	G Protein-Coupled Receptor GPR21	NM_005294	atgaactcca ccttgatgg taatcacagc agccaccct ttgacctctt ggcatctggc A tatttggaac ctgtcaatt ttgacctttg gaagtattga ttattgtctt tctaaactga ttgattatt ctggcaacat catgtgatt ttgtatttc actgtgcacc ttgttgaac catcacata caagtatttt tatccagact atggcatatg ctgacctttt tgttggggtg agctgcgtg tcccttcttt atcaactctc catcaccccc ttccagtaga ggagtccctg acttgccaga tatttggttt ttagtatca gtctgaaga gcgtctccat ggtctctctg gcctgtatca gcattgatag atcaattgcc attactaac cttaacctc taatactctg gttacacct ggagactacg cctgtgatt ttctgattt ggctatactc gacctgggtc ttcctgacct cctttttcca ctggggcaaa cctggatatac atggagatgt gtttcagtg tgtgcggagt cctggcacac cgactcctac ttacacctgt tcatcgtgat gatgtatat gccccagcag ccttattgt cgtctcacc tatttcaaca tcttcgcac ctgccaacag cacacaaagg atatcacga aaggcaagcc cgcttcagca gccagagtgg ggagactggg gaagtgcagg cctgtcctga taagcgtat gccatggtcc tgtttcgaat cactagtga ttttacatcc tctggtgcc atatatcatc tactcttgt tggaaagctc cactggccac agcaaccgct tgcacacct ctbgaccacc tggcttgcta ttagtaaac tttctgcaac tgtgtaatt atagctctc caacagtga ttccaaaag gactaaagc ccttcaggg gctatgtga cttctgtgc aagtcagact acagccaacg accttacac agttagaagc aaaggccctc ttaatggatg tcatatctga	Homo sapiens
261	3858	G Protein-Coupled Receptor GPR21	NP_005285.1	MNSTLDGNQS SHPCLLAGF YLETVNFCLL EVLIIVFLTV LIISGNIIVI FVFHCAPLLN P HHTTSYFIQT MAYADLFVG SCVPSLSLL HHPLPVEESL TCQIFGFVVS VLKSVSMASL ACISIDRYIA ITKPLTYNTL VTPWRRLRCI FLIWLSTLV FLPSFFHWGK PGYHGDVFEQW CAESWHTDSY FTLFIVMMLY APAALIVCFY YFNIFRICQQ HTKDISERQA RFSSQSGETG EVQACPKRY AMVLRITSV FYILWLPYII YFLESSTGH SNRFASFLT WLAISNSFCN CVIYLSNSV FORGLKRLSG AMCTSCASQT TANDPYTVRS KGPLNGCHI	Homo sapiens
262	3859	G Protein-Coupled Receptor GPR22	NM_005295	atgtgttttt cctccattct ggaatacaac atgcagctcg aatctaacat tacagtgcga A gatgacattg atgacatcaa caccaatag taccacaccac tatcatatcc gttaaagcttt caagtgtctc tcaccgatt tcttatgta gaaattgtgt tgggacttgg cagcaacctc actgtattgg tactttactg catgaaatcc aacttaatac actctgtcag taacattatt acaaatgaac ttcatgtact tgaatgaata atttgtgtg gatgtattcc tctaaactata gttatctctc tgccttctact ggagagtaac actgctctca ttgtgtgtt ccatgaggct tgtgtatctt ttgcaagtgt ctcaacagca atcaacgttt ttgtatcac ttggacaga tatgacatct ctgtaaaaac tgcaaaccca attctgacaa ttctgtttat tgaggtataat atgatatcca ttgtgatttt ttcttttttc tctttctcga ttctttttat tgaggtataat	Homo sapiens

263	3859	G Protein- Coupled Receptor GPR22	NP_005286.1	<p> tttttcagtc ttcaaaagtgg aaataacctgg gaaaaacaaga cactttttatg tgtcagttaca aatgaataact acactgaact gggaatgtat tatcacctgt tagtacagat cccaatattc tttttcactg ttgtagtaat gttatcacaca tacaccaaaa tacttcaggc tcttaattatt cgaataggca caagattttc aacagggcag aagaagaaga caagaagaaga aaagacaatt tctctaacca cacaacatga ggtacagac atgtcacaaa gcagtgggtgg gagaaatgta gtctttgggt taagaacttc agttctgta ataattgccc tccggcgagc tgtgaaacga caccgtgaac gacgagaaag acaaaagaga gtcttcagga tgtctttatt gattattct acatttctc tctgctggac accaatttct gtttaataa ccaccatttt atgtttaggc ccaagtgaac ttttagtaaa attaagattg tgttttttag tcatggctta tggaacaact atatttcacc ctctattata tgcattcaat agacaaaaat ttcaaaaagt cttgaaaagt aaaatgaaaa agcgagttgt ttctatagta gaagctgac cctgcctaa taatgctgta atacacaact cttggataga tcccaaaaga acaaaaaaa ttaccttga agatagtga ataagagaaa aacgtttagt gctcagggt gtcacagact ag MCFSPILEIN MQSESNTVR DDIDDINTNM YQPLSYPLSF QVSLTGFLML EIVLGLSNL P TVLVLYCMKS NLINSVSNII TMNLHVLVDVI ICVGCIPLTI VILLLSLESN TALICCFHEA CVSEFASVSTA INVFAITLDR YDISVKPANR ILTMGRAVML MISIWIFSF SFLIPFIEVN FFSLQSGNTW ENKTLICVST NEYTELGMY YHLLVQIPF FFTVVMMLIT YTKILQALNI RIGTRFSTGQ KKKARKKKTII SLTQHEATD MSQSSGGRNV VFGVRTSVSV IIALRRRAVKR HRERRERQKR VERMSLLIIS TFLLCWTPIS VLNTTILCLG PSDLLVKLRL CFLVMAYGTT IFHPLLYAFT RQKFQKVLKS KMKKRVVSIV EADPLPNNAV IHNSWIDPKR NKKITFEDSE IREKRLVPQV VTD </p>	Homo sapiens
264	3860	G Protein- Coupled Receptor SLC/MCH1	NM_005297	<p> atgttgtgtc ttccaagac agatggctca gggcactctg gtaggattca ccaggaaact A catgtgagaag gtaaaaggga caagattagc aacagtgaag ggaggagaa tgggtggaga ggattccaga tgaacggtgg gtcgtggag gctgagcatg ccagcaggat gtcagttctc agagcaaaagc ccattgtcaaa cagccaacgc ttgtctcttc tgtccccagg atcacctct cgacaggga gcatctccta catcaacatc atcatgcctt cgggtgttcgg caccatctgc ctctctggga tcatcggga ctccaagtc atcttcgagg tctggaagaa gtccaagctg cactggtgca acaacgtccc cgacatcttc atcatcaacc tctcggtagt agatctctc ttctctctgg gcatgcccct catgatccac cagctcatgg gcaatggggt gtggcacttt ggggagacca tgtgacacct catcaggcc atggatgcca atagtcagtt caccagcacc tacatcctga ccgccatggc cattgaccgc tacctggcca ctgtccaccc catctctcc acgaagtcc ggaagccctc tgtggccacc ctggtgatct gctcctctg ggcctctcc ttcatcagca tcacccctgt gtggtgtat gccagactca tccccctcc aggagtgca gtgggtgctg gcatacgcct gcccaaccca gacactgacc tctactggtt caccctgtac cagtttttcc tggcctttgc cctgcctttt gtggtcatca cagccgcata cgtgaggatc ctgcagcgca tgacgtcctc agtggccccc gcctcccagc cagcatccg gctgcgaca aagaggtgta ccgcacagc catcgccatc tgtctggtct tctttgtgtg ctgggacccc tactatgtgc tacagctgac ccagttgtcc atcagccgct cgaccctcac ctttgtctac ttatacaatg cggccatcag cttgggctat gccaacagct gcctcaaccc ctttgtgtac atcgtgctct gtgagcgtt ccgcaaacgc ttggtcctgt cgggtgaagcc tgcagccag gggcagcttc gcgtgtcag caacgctcag acggtgacg aggagaggac agaaagcaaa </p>	Homo sapiens

265	3860	G Protein- Coupled Receptor SLC/MCH1	NP_005288.1	ggcacctga MLCPSKTDGS GHSGRIHQET HGEGRDKIS NSEGRENGGR GFQMNNGSLE AEHASRMSVL P RAKPMNSOR LLLSPGSP RTGSIYINI IMPSVFGTIC LLGIIGNSTV IFAVVKSKSL HMCNNVPDIF IINLSVVDLL FLGMPFMIH QLMNGVWHF GETMCTLITA MDANSQFTST YILTAMADR IYATVHPIS TKFRKPSVAT LVICLLWALS FISITPVWLY ARLIPFPGA VCGGIRLPNP DTDLYWFTLY QFFLAFALPF WVITAAYVRI LQRMNTSSVAP ASQSRIRLRT KRVTRTAIAI CLVFFVCWAP YVVLQTLQLS ISRPTLTFVY LYNAAISLGY ANSCLNPFVY IVLCETFRKR IIVLSVKPAAQ GQLRAVSNAQ TADEERTESK GT	Homo sapiens
266	3861	G Protein- Coupled Receptor GPR25	NM_005298	atggcccccagagccctg gagcccccag ccggggtcag cgccctggga ctactcgggg A ttggacggcc tggaggagct ggagctgtgt ccggccgggg acctgcccta cggctacgtc tacatccccg cgctctacct ggcggccttc gccgtgggcc tgcctgggcaa cgcctttgtg gtgtggctgc tggccgggag ctgacctggg cggggggccc cggcggtggtg tggatacctt cgtgctgcac ctggcggcag ctgacctggg cttcgtgttc agctgtgcgc tgcgaagctca tgcgttcgc gctggcggc aggcggccgt ggccgttcgg cgtgctggcg gccatgagcg tggaccgcta cctggccgtg acgcgctcgg cgggcgcgt cgtgctggcg gccactgcgc accccgcgt gcgccgtggc ctgctgtgc gtgaagctgc tcgagcgag cgtggcgct gctggccgag cgtgccctcc tggctaccg ggggttgca ggcgtctgg cgtggcgct cagccagtg cagccagtg cgtgctccc cctcccacg cttccaggc ccccgctg cgtgctgct cctgcgcgg cctgcgcgg cctgcgcgg cgtgctgct cctctctgc ctcagcttc tgcgtgctg cagccagtg cagccagtg cgtgctccc cgtgctgct cctctctgc tactgcgca tctgcgcgg cctgcgcgg cctgcgcgg cgtgctgct cgtgctgct cctctctgc tcgctgcga tcatcttcg cagccagtg cagccagtg cgtgctgct cgtgctgct cgtgctgct gcccgtgg cgtgctgct cgtgctgct cgtgctgct cgtgctgct cgtgctgct cgtgctgct ctcagcttc tgcgtgctg cagccagtg cagccagtg cgtgctgct cgtgctgct cgtgctgct gcccgtgg cgtgctgct cgtgctgct cgtgctgct cgtgctgct cgtgctgct cgtgctgct gcccacccg cgtgctgct cgtgctgct cgtgctgct cgtgctgct cgtgctgct cgtgctgct gcctgcggg cgtgctgct cgtgctgct cgtgctgct cgtgctgct cgtgctgct cgtgctgct gacgacagt cgtgctgct cgtgctgct cgtgctgct cgtgctgct cgtgctgct cgtgctgct tag	Homo sapiens
267	3861	G Protein- Coupled Receptor GPR25	NP_005289.1	MAPTEPWSPS PGAPWDYSG LDGLELELC PAGDLPYGV YIPALYLA AFVLLGNFV P WLLAGRRGP RRLVDTFVLH LAAADLGFVL TPLWAAAAA RRPWFGDGL CKLSTFALAG TRSAGALLA GMSVDRYLAV VKLLEARPLR TPRCAVASCC GWAVALLAG LPSLYRGLQ PLPGGQDSQC GEEPSHAFQG LSLLLLLLTF VLPVLTFLC YCRISRRLLR PPHVGRARRN SLRIIFAIES TVGSWLPFS ALRAVFLHAR LGALPLCPPL LLALRWGLTI ATCLAFVNSC ANPLIYLLLD RSFRARALDG ACGRTGRLAR RISSASSLSR DDSSVFCRA QAANTASASW atgatgtggg gtgcaggcag ccctctggc tggctctcag ctggctcagg caactgaat A gtaagcagc tggggccagc agaggggccc acaggtccag ccgcaccact gccctgcct aaggcctgg atgtgtgct ctcgacttca ggcacccctg tgcctgcga gaatgcgcta gtggtggcca tcatcgtggg cactcctgc ttcctgccc ccatgttct cgtggtggg agcctggccg tggcagacct gctggcagg cgtggcctg tgcgtggtg cgtgctgct ttctgcatc gtcagcga gatgagcctg gtgctggtg cgtgctgct cgtgctgct accgccaaga tggcagctt actggccatc actgtcgacc gctacattt cctgtacaa	Homo sapiens
268	3862	G Protein- Coupled Receptor GPR3	NM_005281	atgatgtggg gtgcaggcag ccctctggc tggctctcag ctggctcagg caactgaat A gtaagcagc tggggccagc agaggggccc acaggtccag ccgcaccact gccctgcct aaggcctgg atgtgtgct ctcgacttca ggcacccctg tgcctgcga gaatgcgcta gtggtggcca tcatcgtggg cactcctgc ttcctgccc ccatgttct cgtggtggg agcctggccg tggcagacct gctggcagg cgtggcctg tgcgtggtg cgtgctgct ttctgcatc gtcagcga gatgagcctg gtgctggtg cgtgctgct cgtgctgct accgccaaga tggcagctt actggccatc actgtcgacc gctacattt cctgtacaa	Homo sapiens

269	3862	G Protein- Coupled Receptor GPR3	NP_005272.1	<p>gacctcacct actattcaga gacacacagt gacacggacct atgtgatgct ggccttagtg tggggaggtg ccctgggacct ggggtgctg cctgtgctg cctggaaactg cctggatggc ctgaccacat gtggcggtgt ttatccactc tccaagaacc atctggtagt tctggccatt gccttctca tgggtgttg catcatgtg cagctctacg ccaaatctg ccgcatcgct tgccgccatg cccagcagat tgccttcag cggcactgc tgcctgcctc cactatgtg gccacccgca agggcattg cacactggcc cctgtgctg ggcctttgc cgcctgtgg ttgcccttca ctgtctactg cctgtgggt gatgcccact ctccacctct ctacacctat ctacactgc tccctgccac ctacaactc atgataacc ctatcatcta cgccttcgc aaccagatg tgcagaaagt gctgtgggt gctgtgctg gctgttctc ttccaagatc ccctccgat cccgctccc cagtgtgct tag</p> <p>WVAIIIGTPA WLSAGSGNVN VSSVGPAGP TGPAAPLPSP KAWDVVLICIS GTLVSCENAL P TASIGSLAI TVDRYLSLYN ALTYSETTV TRTYMLALV WGGALGLGLL PVLAWNCLDG LTTCGVVYPL SKNHLVLA I AFFMVFIML QLYAQICRIV CRHAQIALQ RHLLPASHYV ATRKGIATLA VVLGAFACW LPFTVYCLLG DAHSPLYTY LTLIPATYNS MINPIIYAFR NQDVQKVLWA VCCCCSSKI PFRSRSPSDV</p>	Homo sapiens
270	3863	G Protein- Coupled Receptor GPR31	NM_005299	<p>atgccattcc caaactgctc agccccagc actgtgtgtg ccacagctgt ggtgtgtctg A ctggggctg agtgtgggt ggtgtgctg ggaacgcgg tggcgctgtg gacctctctg ttccgggtca ggtgtggaa gccgtacgt gtctacctg tcaacctggc cctggctgac ctgtgttg ctgctgctt gcttctctg gccctctc cctgagcct acctgagcct ccaggctgg catctggcc gtgtgggtg ctgggcccgt gacccgtacc tccgtgtgtt ccacacctgg gggatggcct tcttgccgc cgtgagctt tccctaggcg cccctgggg tctcgggct cgtctggctc cttaaggctc acctgtgtc tccctacctg cccgggctt ctatctctg agccgcacca gaactccac ctgatgtcg cctcactg gtttctactc cagggcagac ggtctctca gcatcatctg gcaggaagca aggtgccaca gtttctactc cctcccttt ggcctcatg tgttctgcaa tgcaggcatc ctctctgcc ttcagttgt tccagaaaag actccggag cctgagaaac agcccaagct tcagcggg atcagggtc tccagaaaag actccggag cctgagaaac agcccaagct tcagcggg caggcactg tccactgtgt ggtgtgtgct gttgtctgt gcttctgctc ctgcttctg gccagagtc cttccagaaat ctccagaaat ctggggagct gcagggccct ttgtgcagtg gtcctacct cggatgtcac ggcagcctc acctacctg acagtgtct caacccgtg gtatactgt tctccagccc cacttcagg agctcctatc ggagggtctt ccacacctc cgagggcaag ggcaggcagc agagccccc aattcaacc ccagagactc ctattctga MPFPNCAPS TVVATAGVL LGLEGLGLL GNAVALWTFI FRVRWKPYA VYLLNALAD P LLLAACLPL AAFYLSLQAW HLGKVCWAL RFLDLRSV GMAFLAAVAL DRYLRVHPR LKVNLSPOA ALGVSGLVWL LMVALTCPGL LISEAAQNST RCHSFYSRAD GSFSLTQEA LSCLQVLPF GLIVFCNAGI IRALQRLRE PEKQPKLQRA QALVTLVWL FALCFLPCFL ARVLMHIFQV LGSCRALCAV AHTSDVTGSL TYLHVVNPV VYCFSSPTFR SSYRRVFHTL RGKQAAEPP DFNPRDSYS</p>	Homo sapiens
271	3863	G Protein- Coupled Receptor GPR31	NP_005290.1	<p>gacctcacct actattcaga gacacacagt gacacggacct atgtgatgct ggccttagtg tggggaggtg ccctgggacct ggggtgctg cctgtgctg cctggaaactg cctggatggc ctgaccacat gtggcggtgt ttatccactc tccaagaacc atctggtagt tctggccatt gccttctca tgggtgttg catcatgtg cagctctacg ccaaatctg ccgcatcgct tgccgccatg cccagcagat tgccttcag cggcactgc tgcctgcctc cactatgtg gccacccgca agggcattg cacactggcc cctgtgctg ggcctttgc cgcctgtgg ttgcccttca ctgtctactg cctgtgggt gatgcccact ctccacctct ctacacctat ctacactgc tccctgccac ctacaactc atgataacc ctatcatcta cgccttcgc aaccagatg tgcagaaagt gctgtgggt gctgtgctg gctgttctc ttccaagatc ccctccgat cccgctccc cagtgtgct tag</p> <p>WVAIIIGTPA WLSAGSGNVN VSSVGPAGP TGPAAPLPSP KAWDVVLICIS GTLVSCENAL P TASIGSLAI TVDRYLSLYN ALTYSETTV TRTYMLALV WGGALGLGLL PVLAWNCLDG LTTCGVVYPL SKNHLVLA I AFFMVFIML QLYAQICRIV CRHAQIALQ RHLLPASHYV ATRKGIATLA VVLGAFACW LPFTVYCLLG DAHSPLYTY LTLIPATYNS MINPIIYAFR NQDVQKVLWA VCCCCSSKI PFRSRSPSDV</p>	Homo sapiens
272	3864	G Protein- Coupled Receptor	NM_005282	<p>ctggtgacct tacttatctc tgtgtcttc tggggctccta ggaatgcca gcactccac A ccacattgcc tgaacttcc aactctcct agctgcgtg tgtctatct caacactcc tcatgtattt cttgtgtctt ctagaacatt cccccgcat tattacttca atgtggctac</p>	Homo sapiens

GPR4

acatacttcc taattgcct gcaaacaccatc tccttctcâc cattgcccag cgatgctttc
gtctctctca taaacactcc cggagaccacaa tttttgtgtc acccccatatc tccctggttg
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ccacggagct gggcgccaac tggcgcccc tgttccatga cgaactcttc cgagaccgt
acaaccacac ctctgtcttt gagaagtcc ccatggaaag ctgggtggcc tggatgaacc
tctatcgggt gttcgtgggc tctctcttcc cgtggcgct catgctgctg tctacccggg
gcatcctgcg ggccgtgcgg ggcagcgtgt ccaccgagcg ccaggagaag gccaaatca
agcggctggc cctcagcctc atcgccatcg tgcgtgtctg ctttgcgcc tatcactgc
tcttgcgtgc ccgcagcgc atctactgg ccgcctctgg ggaactgcggc ttgagagagc
cgctcttttc tgcataccac agctcactgg ctctaccag cctcaactgt gtggcgagcc
ccatcctcta ctgcctggtc aacgagggcg ccgcagcga tgtggccaa gcccgcaca
acctgctccg ctctctggcc agcgacaagc ccaggagat ggccaatgcc tgcctacccc
tggagacccc actcactcc aagaggaaac gcacagccaa agccatgact ggcagtggg
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gaaccccag tggcacagaa tcccagttt tcccctctca tcccacagtc ccttctctcc
tggctggtg tatgcaatt gtatggaaaa agggctgtgt taatatctat aagaatacaa
gaacttagga agagtgggt tgggtgttca ctggtcaacc ttgtgtctcc cagatcccat
cacagttagg cgatttgga gggcctcctg aaggaggaga tgagtaata tatitttttg
gagacagggt ctactgtgt tggccaggct ggagtgcagt agtgcagtcg tggctcactg
cagcctccac ctctgggct ctccagcgt ctcccacat cagcctccc agtagctggg
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ctcactatgt ttcccaggc tgatcttgaa ctctgggct caagagatcc tctgctctg
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caaacatttg gtttccagaa aataagaca aatagagaag gttagatttt ttttttcca
caaagtggat aaaagtctgt gactcggggg aagtggaag gagaaatgca gccgatatag
agtcattatg ttgcaaaag ccttggtcat acaggccagg gaacataaga ccgcaattct
aagtttctag ataaacagc atctccaaat caagactgag gatgaagagg cgaatgtca
gaactcaagt gaaggcaat cagggcagac tgcctggagg agtgatgcca gaaggtttgg
gaagaagggt tgggacaaga agaaagggt tttattcatt cattcaacag aggtttatgt
agggcactgt gctgggttgg gctgggggaca caacaatgac tgaggcagcc tggccttgcc

273	3864	G Protein- Coupled Receptor GPR4	NP_005273.1	ttcacaggcg tcaccatata caagtaataata aaaaaatatgt aatgttttga attgct MGNHTWEGCH VDSRVDHLFP PSLYIFVIGV GLPTNCLALW AAYRQVQQRN ELGVYLMNLS P IADLLYICTL PLWVDYFLHH DNMTHPGSC KLFGEFIFTN IYISIAFLCC ISVDRLAVA HPLRFARLRR VKTAVAVSSV VWATELGANS APLFHDELFR DRYNHTFCFE KFPMEGWVAV MNLRYRVFGE LFPWALMLLS YRGILRAVRG SVSTERQEK A KIKRLALS LI AIVLVCFAFY HVLNLSRSAL YLGRPWDCGF EERFSAHYS SLASTSINCV EGPILYCLIN EGARSQDVAKA LHNLRLFLAS DKPQEMANAS LTLETPLTSK RNSTAKAMTG SWAATPPSQG DQVQLKMLPP AQ	Homo sapiens
274	3866	G Protein- Coupled Receptor GPR6	NM_005284	atgaacgcga gcgcgcctc gctcaacgac tccaggtggg tggtagtggc ggccgaagga A gcgcgcgcgc gcgcacagc agcagggggg cggacacgg gcgaatgggg acccctgct gcgcgcgcgc taggagccgc cggcgagct aatgggtctc tggagctgtc ctgcagctg tcggctgggc caccgggact cctgctgcca gcggtgaatc cgtgggacgt gctcctgtgc gtgtcgggga cagtgatgc gcgagaaaac gcgctggtgg tggcgctcat cgcgtccact ccgcgcgtgc gcacgcccac gtctgtgctg taggcagcc tggccaccgc tgacctgttg gcgggcgttg gcctcatctt gcactttgtg ttccagtact tgggtgccct ggagactgtg agtctgctca cgttgggctt cctcgtggcc tccctggccg cctctgtcag cagcctgctg gccattacgg tggaccgcta cctgtccctg tataacgcgc tcacctatta ctcgcgcgg accctgttgg gcgtgcacct cctgcttggc gccacttggc cngtgcctt aggcctgggg ctgctgcccc tgctgggctg gaactggctg gcagagcgc cgcctgacg cgtggtgcgc ccgctgggc gcagccacgt ggcctgtctc tccgcgcct tcttcattgt cctcggcatc atgctgcacc tgtagctgc catctgccag gtggtctggc gccacgcga ccagatgcgc ctgcagcagc actgcctggc gccaccccat ctcgctgcca ccagaaagg tgtgggtaca ctggctgtgg tgctgggac tttcggcgcc agctggctgc ccttcgccat ctattgcgtg gtgggcagcc atgaggacc ggcggtctac acttaacgca cctgctgcc cgcacactac aactccatga tcaatcccat catctatgcc ttcgcgaacc aggatacca gcgcgcctg tggtcctgc tctgtggctg tttccagtc aaagtgcct ttcgttccag gtctccagc gaggtctga	Homo sapiens
275	3866	G Protein- Coupled Receptor GPR6	NP_005275.1	MNASAAASLND SQVVVAAEG AAAAATAAGG PDTGEMGPPA AAALGAGGGA NGSLELSSQL P SAGPPGLLP AVNPDVLLC VSGTVIAGEN ALVVALIAST PALRTPMFVL VGSLATADLL AGCGLILHFV FQYLVPSSTV SLLTVGFLVA SFAASVSSLL AITVDRLSL YNALTYSSRR TLIGVHLLA ATWTVSIGLG LLPVLGNCL AERAACSVVR PLARSHVALL SAAFFMVFGI MLHLYVRICQ VWMRAHQIA LQHCILAPPH LAATRKGVGT LAWLGTFGA SWLPEAIYCV VGSHEPAVY TYATLLPATY NSMINPIYA FRNQEIQRAL WLLLCGCFQS KVPFRSRSPS EV	Homo sapiens
276	3867	G Protein- Coupled Receptor GPR7	NM_005285	atggacaacg cctcgttctc ggagcccttg cccgcacaacg catcgggccc ggaccggcg A ctgagctgct ccaacgcgtc gactctggcg ccgctgcgg gcgcgtggc ggtggctgta ccagttgtct acgcgtgat ctgcgcctg ggtctggcg gcaactccgc cgtgctgtac gtgtgtgtgc gggcgcccc catgaagacc gtcaccaacc tgttcatcct caacctggcc atcgccgacg agctcttccac gctgggtgctg cccatcaaca tcgccgactt cctgctggcg cagtgccctc tcggggagct catgtgcaag ctcatcgtgg ctatcgacca gtacaacacc	Homo sapiens

277	3867	G Protein- Coupled Receptor GPR7	NP_005276.1	<p>ttctccagcc ttacttctct caccgtcaatg agcgccgacc gctacctggt ggtgttgccc actgcggagt cgcgcggggt ggcgcggcgc acctacagcg ccgcgcgcgc ggtgagcctg gccgtgtggg ggatcgtcac actcgtcgtg ctgcccttcg cagtcttcgc ccggctagac gacgagcagg gccggcgcca gtgcgtgcta gtctttccgc agcccgaggc cttctggtgg cgcgcgagcc gacctacac gctcgtgctg gctcgtgcca tcccgtgtc caccatctgt gtcctctata ccacctgct gtgcgggctg catgcccagc ggcgggacac ccacgccaaag gccctggagc gcgccaagaa gcgggtgacc ttccgtggtg tggcaatcct gcgggtgtgc ctcctctgct ggacgcctta ccacctgagc accgtggtgg cgcctaccac cgacctcccg cagacgcgcg tggtcacgc tatctctac ttcatcaca gctgacgta cgccaaacagc tgcctcaacc ccttctctta cgccttctg gagccagct tccgcaggaa cctccgccag ctgataaact gccgcgcgcg agcctga</p>	Homo sapiens
278	3868	G Protein- Coupled Receptor GPR8	NM_005286	<p>VLLRAPRMKT VTNLFILNLA IADELFTLVL PINIADFLR QWPFGEIMCK LIVAIQXNT FSSLYFLTVM SADRYLVVLA TAESRRVAGR TYSAAARAVSL AVWGIVTLV LPFAVFARLD DEQRRRCQVL VFPPQEAFFW RASRLYTLVL GFAPVSTIC VLYTTLCL HAMRLDSHAK ALERAKKRV FLVAILAVC LLCWTPYHLS TVVALTTDLP QTPLVIAISY FITSLTYANS CLNPLYAFL DASFRNLRLQ LITCRAAA</p>	Homo sapiens
279	3868	G Protein- Coupled Receptor GPR8	NP_005277.1	<p>atgcaggcgc ctgggcaccc agagccctt gacagcagg gctccttctc cctcccaagc A atgggtgccca acgtctctca ggacaaatggc actggccaca atgccacctt ctcagagcca ctgcggttcc tctatgtct cctgcgcgc cctgtactcc ggtactcgc ggtggtgctg actggcaaca cggcgtgcat cctgttaac ctaagggcgc caagatgaa gacggtgacc aacgtgttca tctgaaact gccgtgccc gacgggtctt tcaagctggt actgcccgtc aacatgcgcg agcacctgct gcagtactgg ccttcgggg agctgctctg caagctggtg ctggccgctg accactaca catcttctcc agcatctact tctagccgt gatgagcgtg gaccgatacc tgggtgtgct ggccaccgtg aggtcccgcc acatgccctg gcgcacctac cggggggcga aggtcgccag cctgtgtgtc tggctggcg tcaaggtcct ggttctgccc ttcttctctt tcgctggcgt ctacagcaac gactgcagg tcccaagctg tgggtgagc ttcccggtgc ccgagcgggt ctggttcaag gccagccgtg tctacacttt ggtccctggc ttcgtgtgc ccgtgtgcac catctgtgtg ctctacacag acctcctgc caggctgcgg gccgtgcgcg tccgtctggt agccaaggct ctaggcaagg ccaggcgga ggtgacctc ctggtcctcg tctgtgtggt cgtgtgctc ctctgctgga cgccttcca cctgacctt gtcgtggccc tgaccacgga cctgccccag accccactgg tcatcagat gtcctacgtc atcacccagc tcacgtacgc caactcgtg ctgaacctt tctctacgc cttctagat gacaaactcc ggaagaactt ccgagcata ttgctgtgct ga</p>	Homo sapiens

280	3869	G Protein- Coupled Receptor HM74	NM_006018	cgccactttg ctggagcatt cactaggcga ggcgtccat cggactcact agccgcactc A atgaatcggc accatctgca ggatcacttt ctggaatatag acaagaagaa ctgctgtgtg sapiens ttccgagatg acttcattgc caagtggttg ccgcccgtgtg tggggctgga gtttatcttt ggcctctctg gcaatggcct tgcctgtgtg atttctgtt tccacctcaa gtccctgaaa tccagccgga ttttctctgt caactggca ttagctgact tctactgat catctgcctg ccgttcgtga tggactacta tgtgcgcgt tcagactgga actttggga catcccttg cggtggtgc tcttcattgt tgcctgaac cgccaggga gcatcatctt cctcacggtg gtggcggtag acaggtatt ccggtggtc catccccc acccctgaa caagatctcc aattggacag cagccatcat ctctgcctt ctgtgggca tcaactgttg cctaacagtc cacctcctga agaagaagt gctgatccag aatggccctg caaatgtgtg cateagcttc agcatctgcc ataccttcg gtggcacgaa gctatgttc ccttgaggtt cctcctgccc ctgggcata tctgttctg ctgagccaga attatctgga gctgaggga gagacaaatg gaccggcatg ccaagatcaa gaggccatc accttcaca tgggtgtggc catcgtcttt gtcatctgct tcttccccag cgtggtgtg cggatccgca tcttctggt cctgcaact tcgggcacgc agaattgtga agtgaccgc tcggtggacc tggcgttctt tateactctc agcttcacct acatgaacag catgctggac ccctggtgt actactctc cagcccatcc tttcccaact tcttctccac ttgatcaac cgtgcctcc agaggaaagt gacaggtgag ccagataata accgcagcac gagctcgag ctacacaggg ccccaacaa aaccagaggc gtccagagg cgttaatggc caactccgt gagccatgga gccctctta tctgggcca acctcaata accattccaa gaaggacat tgtcaccag aaccagcatc tctggagaaa cagttgggt gtgcatcga gtaatgtcac tggactcgc ctaagggttc ctggaacttc cagattcaga gaatctgatt taggaaact taggcagatg agtggagac tggttgcaag gtgtgaccac aggaatcctg gaggaacaga gactaaagt tctaggcatc tgaacttgc ttcatctctg acgtcgcag gactgaagt gggcaaatg taggcgttc tctgagcag agttggagcc agagatctac ttgtgacttg ttggcctct tccacatct gctcagact gggggggct cagctcctc ggtgatctc agcctgctg tagccttag caggataag gagagctgag attggaggga attgtgttc tctggaggga agcccaggca tcattaaaca agccagttag tcaactgct tccgtggac aattcatct tcagacaagc tttagagaaa tggactcagg gaagagact acatgcttg gttagtatc tgttttccg tgggtgtaat aggggattag cccagaagg gactgagta aacagtgtta ttatgggaaa gaaatggca ttgctgctt caaccagcga ctaatgcaat ccattcctc ctgtttata gtaacttaag ggttgagcag taaaacggc ttcaggatag aaagctgtt cccactgtt tegtttacc attaaaaagg aaacgtgct ctgcccacg gtagagggg gtgcaggtc ctctgggtc cttcgctgt gtttctgtac ttacaaaaa tctaccactt caataaattt tgataggaga caaaaaaaa a	281	3869	G Protein- Coupled Receptor HM74	NP_006009.1	MNRHLLQDHF LEIDKKNCCV FRDDFIKVL PPVLGLEIF GLLGNGLALW IFGFHLKSWK P SSRIFFLELA VADELLIICL PFVMDYVVR SDWNFGDIPC RLVLFMFAMN RQSIIFLTV sapiens VAVDYFRVW HPHALNKIS NWTAAIISCL LWGITVGLTV HLLKKLLIQ NGPANVCISF SICHTFRWHE AMFLLEFLP LGIILFCSAR IISLORQM DRHAKIKRAI TFIMVVAIVF VICFLPSVV RIRIFWLLHT SGTQNCVYR SVDLAFITL SFTYMNMLD PVVYFSSPS FPNFFSTLIN RCLQKMTGE PDNNRSTVE LTGDPNKTRG APEALMANSG EPWSPSYLGP
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282	3870	G Protein-Coupled Receptor OGR1	NM_003485	TSNNHKKGH CHQEPASLEK QLGCCIE.	atggggaaca tcaactgcaga caactcctcg atgagctgta ccatcgacca taccatccac A cagacgtgg ccccggtggt ctatgttacc gtgctgggtg tgggcttccc ggccaactgc ctgtccctct acttcggcta cctgcagatc aaggcccgga acgagctggg cgtgtacctg tgcaacctga cgggtggcga cctctttac atctgtcgc tggccttctg cgtgcagtac gtgctcagc agacaactg gtctcagcg gacctgtctt gccaggtgtg cggcatcctc ctgtacaga acatctacat cagcgtgggc ttctctgtct gcatctccgt ggacgcgtac ctggctgtg cccatccctt ccgcttccac cagttccgga cctgaaggc ggcgtcggc gtcagcgtg tcatctgggc caaggagctg ctgaccagca tctacttct gatgcagag gagtcacg agacagagaa ccagcacgc gtgtgctttg agcactacc catccaggca tggcagcgc ccatcaacta ctaccgctc ctggtgggt tctcttccc catctgcctg ctgctggcgt cctaccagg catcctgcg gccgtgccc ggagccacgg caccagaag agccgaag accagatcca gcggtgggtg ctgaccacg tggcatctt cctggctgc ttcctgcctt accagtggt gtgctgggtg cgcagcgtc tggagggcag ctgcgacttc gccaaagggc ttttcaacg ctaccactc tccctctgc tcaccagctt caactgcgtc gccgacccg tgctctactg ctctgtcag gagaccacc accgggacct ggccccctc cgcggggcct gctggcctt cctaccctg tccaggaccg gccggggcag ggagggcctac ccgtgggtg ccccgaggc ctcgggaaa agcggggccc aggtgagga gcccgagctg ttgaccaagc tccaccgcg cttccagacc cctaaactgc cagggtcggg cgggttcccc acgggcaggt tggcctag	Homo sapiens
283	3870	G Protein-Coupled Receptor OGR1	NP_003476.1	MGNITADNSS MSCTIDTIH QTLAPVYVT VLVGFPANC LSLYFGYLQI KARNELGVYL P CNLTVDLFY ICSLPFWLQY VIQHDNWSHG DLSCQVCGL LYENIYISVG FLCCLSVDRY LAVAHPRFH QFRTLKAAVG VSVVIWAKEL LTIYFLMHE EVIEDENQHR VCFEHPYIQA WQRAINYYRF LVGFLFPICL LLASYQGILR AVRRSHGTQK SRKQIQRLV LSTVWIFLAC FLPYHVLLLV RSVWEASCDF AKGVFNAYHF SLLTSTNCV ADPVLYCFVS ETTHRDLARL RGACLAFLTC SRTGRAREAY PLGAPEASGK SGAQGEPEL LTKLHPAFQT PNSPGSGGFP TGRLA	Homo sapiens	
284	3921	Prostacyclin Receptor	NM_000960	agcaagtga ggcacagacg caggggacag gagagcctgg gcaagactgg agagcccaga A cctgggatgg cggattcgtg caggaacctc acctacgtg cgggctcgtt ggggcccggc accagaccc tgatgttctg ggcgggtgtg gtgggcaacg ggcctggccc ggcacatcctg agcgacggc gaccggcgc cccctcgcc ctctctgag cggcctgt tctggccta tgcgcaac accgacctg tgggacacag ctctctgag cggcctgt tctggccta tgcgcaac agctccctg tgggctggc cggagggcg cccgctctg ccatgacctt cgccttcgccc atgacctct tcggcctggc gtcctatgct atctctttg ccatggcctt ggagcgtgc ctggcgctga gccaccccta cctctacgc cagctggacg ggccccctg cgcctgcctg gcgtgccag ccatctacg ctctctgct ctctctgct cgtgccccct gctgggctg ggccaacacc agcagtact ccccggcag tgggtcttc tccgcatgc ctggggcccag ccgggcggcg cgccttctc gctggcctac gccggcctg tggcctgct ggtggtgctg atcttctct gcaacggctc ggtcacctc agcctctgc ccatgtacc ccagcagaag cgccaccagg gctctctggg tccacggcg cgcaccggag aggacaggtt ggaccacctg	Homo sapiens	

285	3921	Prostacyclin NP_000951.1 Receptor	atcctgtggt ccctcatgac agtgggtcatg gccgtgtgct ccctgcctct cactatccgc tgcttccacc aggtgtgcg cctgacagc agcagtgaag tgggggacct ccttgccttc cgcttctacg ccttcaacc catctggac tgcctgtgct tgcctgttct cgcgaaggct gtcttccagc gactcaagct ctgggtctgc tgcctgtgct tgggctgcgc ccacggagac tcgacagac ccctttccca gctgcctcc cggagggagg acccaagggc ccctctgct cctgtgggaa aggaggggag ctggtgtcct ttgtcgctt gggcgagg gacgtggag cccttgctc ccacacagca gtcagcgc agcgcgtg gacgtcgtc caagcagaa gccagcgtc cctgtccct ctgtgacat ttcaagtga cctgtgatc tctgctgt cttcggcgga caggagccag aaaaatcagg acatggctga tggctgcga tctggaacc ttggccccc aactctggg ccgacagct gctgttctc ctgcgccagg gcagtcgtg ctggctctgg gaagagagt aggcacagag gaaacgttta tctggagt cagaagaat ggttctctca aataaccag tggcctggc gacctgtct ggccttgat tccccatca tctcattgtc taaatattta gaaggcgag agttccca agcttctgt acgtcagg ctgctctgt ctgggtgctg gctccaatct cgtccactt agaggccca actgccacc ccaagtccc aggggatgg cctcccctc taccagcca ctccaagagc cagccctt tctgtccac aaaaaccaca gttattgga aagctccct ccttccctg ccgtgtgctc cccaccagg ttgggagccc tggcatccca aaggggaaac gggaggaagg gtagctgct gcattgtgg tgatgacga ggcattgtc ttggtacaaa aaggccctga gacattccac ct	Homo sapiens
286	3923	Prostaglandin D2 Receptor	LLGTSFLSPA VFVAYARNSS LLGLARGGPA LCDAFAMT FFLASMLIL FMAVERCLA LSHPYLYAQL DGPRCARIAL PAIYAFVLF CALPLILGLQ HQQYCPGWC FLRMWAQPG GAFLSLAYAG LVALLVAAIF LCVSVTLISL CRMYRQKRR QGSLGPRPT GEDEVHLIL LALMTVMVAV CSLPTIRCF TQAVAPDSSS EMGDLLAFRF YAFNPILDPW VFILFRKAVF QRLKLWVCL CLGPAHGDSQ TPLSQLASGR RDRAPASPV KEGSCVPLS AWGEGQVEPL PPTQSSGSA VGTSSKAEAS VACSLC gctgtgcaac ctggcgcca tgcgcaacct ctatgcgat caccggcggc tgcagcggca A cccgcgtcc tgcaccagg actgtgccga gccgcgcgc gacgggaggg aagcgtccc tcagccctc gaggagctg atcactcct gctgctggc gctgatgacc tgctttcac tatgtgtct ctgcccgtaa tttatcgcc ttactatga gatttaagg atgtcaagg gaaaaacagg acctctgaag aagcagaaga cctccgagcc ttgcgattc tatctgtgat ttcaatttg gaccttgga tttttatcat ttccagatc ccagtatcc ggatatctt tcacaagatt ttcattagac ctcttaggta caggagccgg tgcagcaatt ccactaacat ggaatccagt ctgtgacagt gttttcact ctgtggttaag ctgaggaata tgcacattt tcagtcaaaag aacca MKSPFYRCQN TTSVEKGNLS VMGGVLFSTG LLGNLLALGL LARSGLWCSS RRRLPLPSV P FMYLVCLTV TDLLGKCLS FVLAAYAQN RSLRVLAPAL DNSLQAF AFMSFFGLSST LQLLAMALEC WLSLGHFFY RRLHILRLGA LVAPVSAF LAFALPFMG FGKFFVQCPG TWCFIQWHE EGSLSVLGYS LDYSSIMALL VLATVLCNLG AMRNLVAMHR RLQRHPRCT RDCAEPRADG REASQPLEE LDHLLLLALM TVLFTMCSLP VIYRAYGAF KDVKEKNRTS EEAEDLRLR FLSVISIVDP WIFIFRSPV FRIFHKIFI RPLRYRSCS NSTNMESL	Homo sapiens
287	3923	Prostaglandin D2 Receptor		Homo sapiens

288	3924	Prostaglandin E Receptor EP1	NM_000955	<p> gggggaggga gggctgagc gccggtgatg gggacccac atcccaggca gtgcccggcac ccctggcgc tgacatgagc ccttgccggc cctcaacct gagcctggcg ggcgaggcga ccacatgagc ggcgccttg gtccccaaca cgtcgccgt ggcgcgtcg ggcgttcgc ccgcgtgccc catcttctc atgacgttg ggcgcgtgc caacctgctg ggcgtggcg tgctggcgca ggcgcggc cgcctggagc ggcgcgtc gcccaccac ttctgtgtg tcgtggccag cctgctggc accgacctg cgggceact gatccccggc ggcgtggtg tgctgtgta cactggggg cgcgtcccg cggcgggg ctcgacctc ctggcggtg gcatggtctt cttcgccctg tgcgcgtg tgcgtggctg tggcatggc gtggagcgt gcgtggcgt cagcgccg cgtgtccacg cgcgcgggt ctcggtcgc cgcgcgcgc tggcgtggc cgcgtggc ggcgtggc tggcgtggc gctgctgct ctcggtggc tggcgtgta tgagctgag taccgggca cgtgtgctt cctcgcccg ggtcccccg gcgtgtggc ccaggcactg cttgtggc tcttggcag cctcgcccg gtcgctcc tgccgcgt ggtgtgaac agctcagc gctggcct gcatcgcc cgtggcgac gcccctccc aggcctccc cggcctcag gcccgcag cggcgtgc tggggggcg acggacccc ctcggcctc gctcgtccg cctcgtccat cgttcggc tccacctct ttggcgctc tggagcgc gctcgccac gcagagctc gcccacgac gtggagatg tgcccgact tgcgtatc atggtggtg cgtgcatcg ctggagccc atgctggtg tggtggcgt ggcgtggc gctggagct ctacctcct gcagcgcca ctgttctg ccgtgcct tgcctcctg aaccagatc tggaccttg ggtgtacat ctactgcgc agccgtgct gcgccaact cttgcctct tgcctcgag ggcggagc agggcgggc ccgcgggct ggcctaaca cgcagcct cgcagcct ctcgtgct agctcccg acagcgct cagccactc taagcaca cagagccca acgactaag cagccaccc tggtgtggc ccaggtgct ggcgcagc cttgggaat aaaaagccat tctgctg </p>	Homo sapiens
289	3924	Prostaglandin E Receptor EP1	NP_000946.1	<p> MSPCGPLNLS LAGEATCAA PWVNTSAVP PSGAPALPI FSMTLGAVSN LLALALLAQ P AGRLRRRSA TTFLLFVASL LATDLAHHVI PGALVRLYT AGRAPAGGAC HFLGCMVFF GLCPILLGCG MAVERCVGT RPLHAARVS VARARLALAA VAAVALAVAL LPLARVGRYE LQYPGTWCFI GLGPPGGWRQ ALLAGLFASL GLVALIALIV CNTLSGLALH RARWRRRSR PPASGPDNR RRGAGHPRS ASASSASSIA SASTFFGSR SSGSARRARA HDVEMVGLV GIMVSCICW SPMLVLVALA VGGWSSTSLQ RPLFLAVRLA SWNQILDPMV YLLRQAVLR QLLRLLPPRA GAKGGPAGLG LTPSAWEASS LRSSRHSGLS HF </p>	Homo sapiens
290	3925	Prostaglandin E Receptor EP2	NM_000956	<p> gggcgcctg cgcgcgctg ggtgcggga gggggtctg gatttcggtc cctccccctt A ttcctctgag tctcggaacg ctcagctct cagacctct tctcccagg taaaggcccg gagaggagg cgcattctt ttccaggcac cccacctgg gcaatgctc caatgactcc cagctgagg actgcagac gcagactgg cttccccag gcgaagccc agccatcagc tccgtcatg tctcgcccg ggtgctggg aacctcatg cactggcgt gctggcgcg cgtggcggg gggacgtgg gtgcagcgc ggcgcagga ctcctctct cttgttccac tgctgtgta ccgactggt gttaccgac cgtcgtggga cctgctcat cagccagtg gtactggctt cgtacgcgc gaaccagac ctggtggcac tggcgccga gagccgcgc tgccactact tcgcttccg catgacctc ttccagctgg ccacgatgct catgctctc gccatggccc tggagcgcta cctctgac ctcgacctt acttaccac ggcgcgcgc tcggcctccg gggcctggc cgtgctgct gtcactatg cagtctccct gctcttctg </p>	Homo sapiens

291	3925	Prostaglandin E Receptor EP2	NP_000947.1	<p> tgcgtgcgc tgctggacta tgggcagtag gtccagtagt gccccgggac ctggtgcttc atccggcag ggcggaccgc ttacctgcag ctgtacgcca cctgtctgt gcttctcatt gtctcgggtgc tgcctgcaa cttcagtgtc attctcaacc tcatccgcat gcaccgccga agccggagaa gccgctgcg accctccctg ggcagtgccc gggggggccc cggggccgcg aggagagggg aaagggtgtc catggcgag gagcggacc acctcattct cctggctatc atgaccatca ccttcgcgt ctgctccttg cctttcagca ttttgcata tatgaatgaa acctctccc gaaaggaaa atgggacctt caagctctta ggtttttatc aattaattca ataattgacc cttgggtctt tggcatcctt aggcctcctg tctgagact aatgcgttca gtcctctgtt gtcggatttc ataaagaaca caagatgcaa cacaaacttc ctgttctaca cagtcagatg ccagtaaaaca gctgacctt tgaggtcagt agtttaaaag tcttagtta tatagcatct ggaagatcat tttgaaattg ttccctggag aaatgaaaac agtgtgtaaa caaatgaag ctgccctaata aaaaaggagt atacaacat ttaagctgtg gtcaaggcta cagatgtgct gacaaggcac ttcattgtaa gtgtcagag gagctacaaa acctaccctc aatgagcatg gtacttgccc ttggaggaa caatcggtg cattgaagat ccagctgcct attgatttaa gctttcctgt tgaatgacaa agtatgtgt tttgtaattt gttgaaacc ccaaacagtg actgtacttt ctattttaat ctgtctacta ccgttatata catatagtgt acagccagac cagattaaac ttcatatgta atctctagga agtcaaatg tggaggaac caagcctgct gtcttgtag cacttagcga accctttatt tgaacaaatga agttgaaaaat cataggcacc ttttactgt atgtttgtgt atgtggagt actctcatca ctacagtatt actcttaca gactggactc agtgggttaa catcagtttt gtttactcat cctccaggaa ctgcaggtca agtgtcagg ttattttatt tataatgtcc atagtctaat agtgatcaag agacatttag gaatggttct ctcaacaaga aataatgaa atgtctcaag gcagttaatt ctcattaata cctttattat cctatttctg ggggaggatg tacgtggcca tgtatgaagc caaatattag gcttaaaaac tgaaaaatct ggttcattct tcagatatatc tggaaacctt ttaaagtga tattggggcc atgagtaaaa tagattttat aagatgactg tgtgtacca aaattcatct gtctatatct tatttagggg aacatgggtt gactcatctt atatgggaaa ccatgtagca gtgagtcata tcttaataata tttctaaatg tttggcatgt aaatgtaaac tcagcatcaa aatatttcag tgaatttgca ctgttttaac atagtactg tgtaaactca tctgaaatgt tacaataaata aactataaaa ca </p>	Homo sapiens
292	3926	Prostaglandin E Receptor EP2	L32662	<p> atgagaaaaa gaagactcag agagcaagag gaattttggg gaaattaa accagagaggt tcccagagag gaaggcgtg ctcctctccc ggcagtagg cctggcgcc gcggcgccg cggctccagc agcgagtag ggcggcggt gcgccccga ccatggggg cagccagcc ccagccgagg taaacgccga cctccgcgc gcgccgccc gcgtctgccc </p>	Homo sapiens
293	3926	Prostaglandin E Receptor EP3	NM_000957	<p> accagagaggt tcccagagag gaaggcgtg ctcctctccc ggcagtagg cctggcgcc gcggcgccg cggctccagc agcgagtag ggcggcggt gcgccccga ccatggggg cagccagcc ccagccgagg taaacgccga cctccgcgc gcgccgccc gcgtctgccc </p>	Homo sapiens

294	3926	Prostaglandin E2 Receptor EP3	NP_000948.1	<p> cctcccgcgtg cggctctctg gacgccatcc cctcctcacc tggaaagccaa catgaaggaag acccggggct acggagggga tgcctccttc tgcacccgcc tcaaccactc ctacacaggc atgtggggcg ccgagcggtc cgcgaggcg cgggggcaacc tcaacgccc tccagggtct ggcaggatt gcgatcggt gtcgctggcc ttcccgatca ccatgctgct cactgggttc gtgggcaacg cactggccat gctgctgctg tgctgcagct accggcgccg ggagagcaag cgcaagaagt ccttctgct gtgcacggc tggctggcg tcaacgacct ggtcggcgacg cttctacca cccgggtcgt catcgtcgtg tacctgtcca agcagcgttg ggagcacatc gaccgctcg ggcggtcctg caccttttc ggctgacca tgaactgttt cgggctctcc tcgttgttca tggccagcg catggcgcgtc gacggggcg tggccatcag ggcccgccac tggtagcga gccacatgaa gacgcgtgac acccgctg tggctgctcg cgtgtgctg gccgtgctcg ccttcgacct gctgcggtg ctggcggtg gccagtacac cgtccagtg cccggaagt ggtgcttcat cagcacggg cgaggggga aggggactag ctctcgcat aactgggga accttttctt cgcctcgtc ttgctctcc tgggctctt ggcgtgaca gtcacctttt cctgcaacct ggcacattt aagccctg tgtccgctg ccgggccaag gccacggcat ctcagtcag tggccagtg ggcgcatac cgaccgagac ggcattcag cttatgggga tcatgtcgt gctgtcgtc cactgcaaga cactgcaaga gaagcagaaa aaaatgatc tctcttaat agctgtcgc cactgcaaga cactgcaaga gaagcagaaa gaatgcaact tctcttaat agctgtcgc cactgcaaga cactgcaaga gaagcagaaa tgggtttacc tctgttaag aaagatcctt cttcgaagt ttgcccagat gagaaaaa agactcagag agcaagagat gggcctgctt ggaaggtgtt ttgtcctgctc atggaggcag gtccccagga cttggtgag ttctcagat agagaacctt cagtgctcca gctaaagctga tgacttgaag ataaatctgc ctaacctgg gatgaagt ctgtgaacta ttttgacagc agataggaa ttttgggaa attaaacctt gccttctgc caggtacaca tcaactggaag ctccatgact cttctttgt aaaaagaaa aaaaatcacag aaaaacccac ctcccaact attctctttt actctctcc ccaagccac ccccaaat aactgttat cagaagctgt tatgtcctgt ttccatacat gttttgtac ttttactata tctacataca tcaattaaac ttatgtccta ttgtttgtg aatttatatt tgcgtataca ttatcatatg taaaatttgc attttttat tgaataattat gttctgtg attatccac attgaaacat ggagctctaa atcgttaatt ttaaccgcta tagagtattc cataatttga ataaagcata attgtttgt ac </p>	Homo sapiens
295	3927	Prostaglandin E2 Receptor EP4	NM_000958	<p> gctggggcgc tgccttgaag gaaaaaaat cagagtaag aatccagca ccatcttca ctgacccatc ccgctgcac tctgtttcc caagtgttg aagctggca actctgacct cgggtgtcca aatcgacag ccactgagac cggctttgag aagccgaaga ttggtcagtt </p>	Homo sapiens

296	Prostaglandin E Receptor EP4	NP_000949.1	<p>tccagactga gcaggacaag gtgaaagcag gttggaggcg ggtccaggac atctgagggc</p> <p>tgacctggg ggctcgtgag gctgccaccg ctgctgcgcg tacagaccca gecttgcaat</p> <p>ccaaggctgc gcaccgccag ccactatcat gtccactccc ggggtcaatt cgtccgcctc</p> <p>cttgagcccc gaccggctga acagccaggt gacctcccg gcggtgatgt tcatcttcgg</p> <p>ggtggtggg aacctggtg ccactggtt gctgtgcaag tgcgcaag agcagaagga</p> <p>gacgacctc tacacgtgg tatgtgggt gactgtacc gactgttgg gactttgtt</p> <p>ggtgagccc gtgaccatcg ccactacat gaaggccaa tggccccgg gccagccgt</p> <p>gtgcgagtac agcaccttca ttctgtctt cttagcctg tccggcctca gcateatctg</p> <p>cgccatgagt gtcgagcgt acctggccat caacctgct tatcttaca gccactacgt</p> <p>ggacaagcga ttggcgggcc tcaactctt tgcagtctat gcgtccaaag tgccttttg</p> <p>cgcgctccc aacatgggtc tcggtagctc gcggtgcag taccagaca cctggtgctt</p> <p>catcgactgg accaccaag tgacggcga cgcgcctac tctacatgt acgcggtt</p> <p>cagctcctc ctcatctcg ccacgtctt ctgcaactg cttgtgtcg gcgcgtgct</p> <p>ccgcagcac gccagttca tgcgcgcac ctgcgtggc accagcagc accacgccc</p> <p>cgcgccgc tgggttgcct ccggggcca cccgctgccc tcccgacct tgcgcgctt</p> <p>cagcgactt cgcgccgc ccgacttccg ccgcctgcg ggcgcgaga tccagatggt</p> <p>catcttactc attgccact cctggtggt gctcatctg tccatcccgc tctggtgctg</p> <p>agtattcgtc aaccagttat atcagccaa tttggagcga gaagtcaagta aaaaaccaga</p> <p>tttgaggcc atccgaattg cttctgtgaa cccatccta gacccctgga tatatactt</p> <p>cctgagaaag acagtgtca gtaagcaat agagaagatc aaatgcctct tctgcccgt</p> <p>tgccgggtcc cgcaggagc gctccggaca gcaactgcca gacagtcaaa ggacatcttc</p> <p>tgccatgtca ggcactctc gctccttcat ccccgaggc ctgaaggaga tccagcagtac</p> <p>atctcagacc cctcgtccag acctctcat gccacactc agtgaaaaatg gcttgagg</p> <p>caggaattg cttccagggt tgcctggcat ggcctggcc caggaagaca ccactcact</p> <p>gaggacttg cgaatatcag agacctcaga ctcttcacag ggtcaggact cagagagtgt</p> <p>cttactggtg gatgagctg gtgggagcgg cagggtggg cctgccccta aggggagctc</p> <p>cctgcaagtc acatttcca gtgaaacact gaacttatca gaaaaatgta tataataggc</p> <p>aaggaaaaga atacagtact gttcttgac cttataaaa tctgtgtcaa tagacacata</p> <p>catgtcacat ttagctgtg tcaagaaggc tatcatca</p>	Homo sapiens
297	Prostaglandin F2-alpha Receptor	NM_000959	<p>LAVTDLLGTL LVSPVTIATY MKGQWPGGQF LCEYSTFILL FFSLSGLSII CAMSVERILA</p> <p>INHAYFYSHY VDKRLAGLTL FAVYASNVLF CALPNMGLGS SRLQYPDTCW FIDWTINVT</p> <p>HAAYSVMYAG FSSFLILATV LCNVLVCGAL LRMHRQFMRR TSLGTEQHHA AAAASVASRG</p> <p>HPAASPALPR LSDFRRRRSF RRIAGAEIQM VILLIATSLV VLIICSIPLV RVFVNQLYQP</p> <p>SLEREVSKNP DLQAIRIASV NPILDPWIYI LLRKTVLSKA IEKIKLFCR IGSSRRERSG</p> <p>QHCSDSQRTS SAMSGHSRSF ISRELKEISS TSQTLLPDLIS LPDLSENGLG GRNLLPGVPG</p> <p>MGLAQEDTTS LRTLRISETS DSSQGDSES VLLVDEAGGS GRAGPAPKGS SLQVTFPSET</p> <p>LNLSEKCI</p>	Homo sapiens
298	Prostaglandin F2-alpha Receptor	NM_000959	<p>ggcgcggggc gccatggcac accgagcggc tccgtcttct gctccctcaga gagcccggt A</p> <p>ggcgccctgg gatgacaaga tgtctggact gcaatcctgc acagttttga gagggagatg</p> <p>acttgagtggt ttggctttta tctccacaac aatgtcccat aacaattcca aacagctagt</p>	Homo sapiens

gtctcttgca gctgcgcttc ttcaaacac aacctgccag acggaatacc ggctttccgt
atTTTTTTca gtaattctca tgacagtggg aatcttgtca aacagccttg ccatcgccat
tctcatgaag gcatatcaga gatttagaca gaagtccaa gcatcgcttc tgcctttggc
cagcgccctg taaatcactg attctttgg ccttcaccac aatggagcca tagcagtatt
tgtatatgct tctgataaaag aatggatccg ctttgacca tcaaatgtcc ttgcagtat
ttttggtatc tgcattggtg ttcttggtct gtgccactt cttctaggca gtgtgatggc
cattgagcgg tgtattggag tcacaaaacc aatatttcac tctacgaaa ttacatccaa
acatgtgaaa atgatgttaa gtgtgtgtg cttgtttgct gtttcatag cttgtctgcc
catccttgga catcgagact ataaaattca ggcgtcgagg acctggtgtt tctacaacac
agaagacatc aaagactggg aagatagatt ttatcttcta ctttttctt ttctggggct
cttagccctt ggtgtttcat tgttgtgcaa tgcaatcaca ggaattacac tttaagagt
taaatTTaaa agtcagcagc acagacaagg cagatctcat cattggaaa tggtaattcca
gtccttgggg ataatgtgtg tctcctgtat ttgttgaggc ccatttctgg ttacaattggc
caacattgga ataaatggaa atcattctct ggaacctgt gaaacaacac ttttgcctct
ccgaatggca acatggaatc aaatcttaga tccttggtga tatattcttc tacgaaaggc
tgtccttaag aatctctata agcttgccag tcaatgctgt ggagtgcag tcatcagctt
acataatttg gagcttagtt ccattaaaaa ttctttaaag gttgctgcta tttctgagtc
accagttgca gaaaaatcag caagcaccta gcttaaatagg acagtaaac tgtgtggggc
tagaacaataa attaagacat gtttggaat atttcagtta gttaaatacc tgtagcctaa
ctggaaaatt caggcttcat catgtagttt gaagatacta ttgtcagatt caggttttga
aatttgtcaa ataaacagga taactgtaca ttctttaaatt gtttttgcca atgggaggtta
gacacaataa ataatggca tgggagtcac actgaaagca attttgagct tatctgtctt
atTTatgctt tgagtgaatc atctgttag gtctaattgc tctacttggc ctatttgcca
gagaacatct taatgcagcc tgcatagtga aatggttatt ttgagatcac cgtctgttag
ctaaccctta taaactaggc tcagtaaaaat aaagcactct tatTTTTtga tctggcctat
tttgccctc attgtgtagc ctcaattaac acatgcattg tcatgacacc cagaattcat
gatggtttgt tataacaacc tctgcatatt ccagggtctgg cagacaggtt gcctgacct
gcaatcctat ctagaatggg ccatttcttg tcacatttga caaataggac tgcctacatt
tattattatg aggtcgatt gttgttgga gtgttttttc atgtcataga ttagcaattt
tcaataaatt atTTTTtctc tgaataattt gtgtgtgatt gcacaataaa taatttttag
agaaacaaag gctctttctc agcacattga tgggcaacta gaattacagc agtttcaaac
tctaccatgg ataatgcaa caaacggaag ctacatgcca atgatagggt caaagaatat
tggcaaaaag tgcTTTacc ttgagccatta ttgtgtctag agaacaaaag aaacagaatc
aatataaaa ttcaaaagact atctgcagct agtgtgttc ttctttacac acatatacac
acagacatca gaaaattctg ttgagagcag gttcattaaa ttgttaagat ggcatttct
aaagcctgtg ctaccagtac taagagggga agactggcaa tttgccaagc acttggggat
tattataaca attaactagg agatcaagag ataatcaat ctcccaaat ttccaataa
taattgagac tttttcttgg ctgtttgtg taattcaacc aagaataatt caatacccat
tcaaatgtgc ctaggcttat cagaaattag ggaagtagt cctgctttat aataggaaaa
tgtatttctg tataagattt ctttgcttcc attaaaatg ggattcatt aaaaattaat
cttccctgt taggtgatt tcagattctc taggaaatct ggtgaagtaa ccagaagact

298	3928	Prostaglandin F2-alpha Receptor	NP_000950.1	MSMNSKQLV SPAAALLSNT TCQTENRLSV FFSVIFMTVG ILSNSLAIAI LMKAYQRFRRQ P	Homo sapiens
				ttcagatggt ttatttgctt tcagcagaga atttatttca tacagttact taagagtgtt gatgtctgt gaacagagat ataaggaaacc atttccatc cttccttacc atgtctgggta caatgcttct atgaatattt ccatgtattt tgactgggga gaggcattga gaagaaactc tcattcaggg gctccaggat ccttctcctt gaggtcttca aataaatggc agaattcttg ctgtattgcc atgatgtcac cctggccatg tgtactgact tgaggagatc ttgcaacatg gcgatgtgca aggtctttaag gagtgaaga gattgtaca tatcttagga ggttatctta tgattatgga gtatatgttt gggtaaccaa attggtctta aaatgatgt taaccaaga agtagacatc aaaaattaaa aaaaaaaaaa aaaa	
				MSMNSKQLV SPAAALLSNT TCQTENRLSV FFSVIFMTVG ILSNSLAIAI LMKAYQRFRRQ P KSKASFLLA SGLVITDFFG HLINGAIAVF VYASDKIEWIR FDQSNVLC SI FGICMVESGL CPLLLGSVMA IERCIGVTKP IFHSTKITSK HVKMLSGVC LFAVFIALLP ILGHRDYKIQ ASRTWCIFYNT EDIKWEDRE YLLLFSLGL LALGVSLICN AITGITLLRV KFKSQHRQG RSHLEMVIIQ LLAIMCVSCI CWSPFLVTMA NIGINGNHSI ETCETTLFAL RMAFWNQILD PWYIILLRKA VLKNLYKLAS QCCGVHVISL HIWELSSIKN SLKVA AISSES PVAEKASAST	
299	4051	Proteinase-Activated Receptor 2	NM_005242	cgcccccccc tggggaggcg cgcagcagag gctccgattc ggggcagggt agaggctgac A tttctctcgg tgcgtccagt ggagctctga gtttcgaatc ggtggcggtg gattccccgc gcgccccggg tgggggcttc caggaggtatg cggagcccca gcgcggcggt gctgctgggg gcgccccatc tgctagcgc ctctctctcc tgcagtggca ccatccaagg aaccaataga tctctaaaag gaagaagcct tattggtaag gttgatggca catcccacgt cactggaaaa ggagttacag ttgaacacgt ctttctctg gatgagtttt ctgcatctgt cctcactgga aaactgacca cggctctcct tccaatgtc tacacaattg tgttctggtt ggttttgcca agtaacggca tggccctgtg ggtctttctt ttcgaaacta agaagaagca cctgctgtg attacatgg ccaatctggc cttggctgac ctctctctg tcatctggtt ccccttgaag attgcctatc acatacatg caacaactgg atttatggg aagctctttg taatgtgctt attggctttt tctatggcaa catgtactgt tccattctct tcatgacctg cctcagtgtg cagaggtatt gggctatcgt gaaccccatg gggcactcca ggaagaaggc aaacattgcc attggcatct ccttgccaat atggctgctg attctgctgg tcaccatccc ttgtatgtc gtgaagcaga ccatcttcat tctgccccg aacatcacga cctgtcatga tgttttgctt gagcagctct tggtaggaga catgttcaat tacttctct ctctggccat tgggtctctt ctgttccag ccttctcacc agcctctgcc tatgtgtga tgatcagaat gctgcgatct tctgccaatg atgaaaactc agagaagaaa aggaagagggt ccatcaaat cattgtcact gtcctggcca tgtacctgat ctgcttcat cctagtaacc ttctgctgtt ggtgcattat ttctgatta agagccaggc ccagagccat gtctatgccc tgtacattgt agcctctgc ctctctaccc ttaacagctg catcgacccc ttgtctattt actttgtttt acatgatttc agggatcatg caaagaacgc tctcctttgc cgaagtgtcc gactgtaaa gcagatgcaa gtatccctca cctcaaaaga acactccagg aaatccagct cttactcttc aagttcaacc actgttaaga cctcctattg agttttccag gtcctcagat gggaattgca cagtaggatg tggaaacctgt ttaatgttat gaggacgtgt ctgttatttc ctaatcaaaa aggtctcacc acataccacc g	Homo sapiens
300	4051	Proteinase-Activated Receptor	NP_005233.2	MRSPSAWLL GAAILLAA SLCSGTIQGTN RSSKGRSLIG KVDGTSHTVG KGVTVEVFS P VDEFSASVLT GKLTTFVLP I VYTVFVUGL PSNGMALWVF LFRTKKKHPA VIYMANLALA	Homo sapiens

301	4052	Proteinase- Activated Receptor 3	NM_004101	<p>DLLSVTFPL KIAYHIHANN WIYGEALCNV LIGFFYGNMY CSILFMTCLS VQRYWVIVNP MGHSRKKANI AIGISLAIWL LILLVTIPLY VKQTIPIPA LNIITCHDVL PEQLLVGDMF NYFLSLAIGV FLPPAFLTAS AYVLMIRMLR SSAMDENSEK KRKRAIKLIV TVLAMYLICF TPSNLLLVVH YFLIKSQQS HVYALYIVAL CSTDINSEKID PFVYFVSHD FRDHAKNALL CRSVRTVKQM QVSLTSKHS RKSSSYSSSS TTVKTSY</p> <p>cctgcctgca cggcacagga gagcaaaact ctacagacag accaaggctt ccatttgctg A ctgacacatg gaactgaggt gaaattgtgc tccatgattt tacagatttc ataacgttta agagacggga ctcaggtcat caaatgaaa gccctcatct ttgcagctgc tggcctcctg cttctgttgc ccactttttg tcagagtggc atggaataat atacaacaa cttggcaaaag ccaaccttac ccattaagac ctttctgtga gctcccccaa attctttga agagtcccc tttctgcct tggaaaggctg gacaggagcc acgattactg taaaaataa gtgcctgaa gaaagtgcct cacatctcca tgtgaaaaat gttacctgag ggtacctgac cagctcctta agtactaac tgatacctgc catctacctc ctggtgtttg tagttggtgt ccggccaat gctgtgacc ttgtgatgct tttcttcagg accagatcca tctgtaccac tgtattctac accaacctgg ccattgcaga ttttctttt ttgtttacct tgcctttta gatagcttat catctcaatg ggaacaaact ggtatttggga gaggtcctgt gccgggccac cacagtcac ttctatggca acatgtactg ctccattctg ctcttgctt gcacagcat caacgctac ctggccatcg tccatccttt cactacccgg gccctgccc agcacacta tgccttggtta acatgtggac ttgtgtggc aacagtttt ttatatatgc tgccatttt cactactgaag caggaatatt atctgttca gccagacatc accactgccc ttcatgttca caacactgac gagtcctcat ctcccttcca actctattac ttcactcct ttggtattct ttgattctta attccatttg tgcttatcat ctactgctat gcagccatca tccggacact taatgcatac gatcatagat ggtgttggtta tgttaaggcg agtctcctca tcttctgtat tttaccatt tgctttgtc caagcaatat tattcttatt attcaccatg ctactacta ctacaacaa actgatggct tataatttat atactcata gctttgtgccc ttggtagtct taatagtgc ttagatccat tcttttatt tctcatgtca aaacccagaa atcacctcac tgcttacctt acaaaatagt gaaatgatct tagagaacaa ggacagccat cacagagaac gtctgttttc aagaacaaca taagcatagt gcaaggagct ccatttccga gctcctaaga aatatgcttc aaagtcaaa cattacaaa gcatagtag ttgtttgtt ttgttttgag actgagctc actttatcac ccagactggc gtgagtgcc actatcttg cccagctact aaaaactt ccaggtcagc ctcccaagta gctgggatta caccaccatg cttgctctga actcctgacc gtatttttag tagagacggg gtttaccat gttgaccag ctggtcttga actcctgacc tcaagtgat tccggcctc agctcccaa agtgcctgat tacagcgtg agccactgag ccagccagca ttagtaattt ttaaaaaac ttatcagta ttttaaaat gttaatgcag gagaaaagat atcacaaact tatgaaaaat gacatttcca tttgccttat tgctacttca agctctttaa atcacctat tccctatttc</p>	Homo sapiens
302	4052	Proteinase- Activated Receptor 3	NP_004092.1	<p>MKALIFAAAG LLLLPTFCQ SGMDNTNLL AKPTLPKTF RGAPPNSFEE FPFSALEGWT P GATITVKIK PEESASHLV KNATNGYLTLS SLSTKLIPAI YLLVFVUGVP ANAVTLWMLF FRTSRICITV FYTNLAADF LFCVTLPFKI AYHLNGNNW FGEVLCRATT VIFYGNMYCS ILLACISIN RYLAIVHPFT YRGLPKHTYA LVTCGLWAT VFYMLPFFI LKQEYILVQP DITTCNDVHN TCSSSPFQL YFISLAFFG FLIPFLIY CYAAIIRTLN AYDHRWLWYV</p>	Homo sapiens

Accession	Gene	Protein	NCBI	UniProt	Species
303	G Protein-Coupled Receptor 17	4090	NM_005291	MSKRNHSTA	Homo sapiens
				YLTK	
				KASLLILVIF TICFAPSNI LIIHHANY NNTDGLYFIY LIALCLGSLN SCLDPFLYFL	
				MSKRNHSTA YLTK	
				ccgacaccca cggcgagaga tcacctgctg cccgcagac cctgtccct tctcccgga A	
				ccagcagcta gagatgtcc aaacggagtt ggtggctgg atccagaaag cccccaagag	
				agatgctgaa actctcaggc tctgactcca gccaaagcat gaatggcctt gaatggctc	
				ccccaggtct gatcaccaac ttctccctgg ccacggcaga gcaatgtggc caggagcgc	
				cactggagaa catgctgttc gcttccctt acccttggga tttatcctg gcttagttg	
				gcaataccct ggctctgtgg ctttccatcc gagaccacaa gtccgggacc cggccaacg	
				tgttcctgat gcactgtgcc gtggccgact tgtcgtgcgt gctggctcgt cccaccgcc	
				tggtctacca cttctctggg aaccactggc catttgggga aatgcacgc cgtctcacg	
				gcttctctt ctacctcaac atgtacgcca gcactactt cctcacctgc atcagcgcg	
				accgtttcct ggccattgtg caccgggtca agtccctcaa gctccgcagg cccctctacg	
				cacacctggc ctgtgccttc ctgtgggtgg tgggtggctgt ggcctatggc cgcctgctgg	
				tgagccacaa gaccgtgcag accaaccaca cgggtggtctg cctgcagctg tacccggaga	
				aggcctccca ccatgccctg gtgtccctgg cagtggcctt caccttccc ttcatacca	
				cggtcacctg ctacctgctg atcatccgca gcctgcggca gggcctgcgt gtggagaagc	
				gcctcaagac caaggcagtg cgcctgctg ccatagctg ggcctatctt ctggtctgct	
				tcgtgcccta ccaagtcac cgtccgctt acgtgctgca ctaccgcgc catggggcct	
				cctggccac ccagcgcac ctggccctgg caaacgcac cacctcctgc ctaccagcc	
				tcaacggggc actcgacccc atcatgtatt tcttctgtgg tgagaagttc cgccacgcc	
				tgtgcaact gctctgtggc aaaaggctca agggcccgcc cccagcttc gaagggaata	
				ccacgagag ctgcctgagt gccagtcag agctgtgagc gggggcgcc gtccaggccg	
				agcgagact gtttaggact cagcagaccc agcaagaggc atctgccct tccccagcca	
				cctccccagc aagcaacctg aaatctcagc agatgcccac catttctata gatgcctag	
				ttctcaacca taaaaaggaa gaactgacaa aggggatcca tgggccccc ctctgcaggg	
				gcttctgatg gctacaatgg ctcttagaca ctcaacgact tcatctgtgg caggagaga	
				ggaggccgga agaacaaccc ctgaacaatg gaggcttctt ttcccgcta ggtccccg	
				ctcctcccg ctacagaatc gctcatcgcc gaggctcagc agaaagaccc tgaaggcagg	
				ctgcaaatga ccagaaagag ggacctggga gtccgtgtgg ggacggggag ggagtctcaa	
				tactcctttg cagcgcaagg tactctgagt cccctctgta gtccctctgc cagacacaca	
				ctgcctgagt tgaagagaca caggccacac attcaggct ggttccagc ggagctcagc	
				actcaaggcc tgcggggact cagcacagct ctggattctg gatctctct gctgtaaccc	
				cagcacaag cctgcaaccc ccagagctct ttgacaggct cccaggcctc ccagtccctg	
				acaaagcatgt gcagtcacgg gagctcagct caggccaggc ctgggtgtg cactgcctc	
				ccactgaccc agacccactt cctccagaga ggcctctctc cgcctgagct attccccctg	
				ctagtgtgca gatatttccc taacatgtcc tttttgtat ttgtttgtac ggaccataaa	
				tataactgta gctttaagac taataaaaaa	
				MSKRSWAGS RKPPREMLKL SGSDSSQSMN GLEVAPPGLI TNFSLATAEQ CGQETPLENM P	
				NP_005282.1	
				LFASFYLLDF ILALVGNTLA LWFIFRDHKS GTPANVFLMH LAVADLSCVL VLPTRLVYHF	
				SGNHWPFGFI ACRLTGFLFY LNMYSIYFL TCISADRFIA IVHPVKSLKL RRLPYAHLAC	
				AFLWVVVAVA MAPLLVSPQT VQTNHTTVCL QLYREKASHH ALVSLAVFT FPFITTVTCY	
304	G Protein-Coupled Receptor 17	4090	NP_005282.1	MSKRSWAGS	Homo sapiens

305 4254 Rhodopsin NM_000539

LLIIRSLRQG LRVEKRLKTK AVRMIIVLA IFLVCFVPYH VNPSVVLHY RSHGASCATQ
RILALANRIT SCLTSLNGAL DPIMYFFVAE KFRHALCNLL CGKRLKGPPP SFEGKTNES
LSAKSEL

agagtcatec agctggagcc ctgagtggct gagctcaggc cttgcagcga tctttgggtg A
ggagcagcca cgggtcagcc acaaggcca gagccatgaa tggcacagaa ggcctaaact
tctacgtgcc cttctccaat cgcacgggtg tggtagcagc ccccttcgag taccacagt
actacctggc tgagccatgg cagttctcca tgcctcacgc tctacgtcac cgtccagcac aagaagctgc
tgctgggctt ccccatcaac ttcctcacgc ctgctcaacc tagccgtggc tgacctcttc atggtcctag
gcacgcctct caactacatc cagcacccctc tacacctctc tttggccacc tggggcctg tggctcctgg
gtggcttcac cagcacccctc tttggccacc tggggcctg tgggtcctg tggctcctgg
gatgcaattt ggagggttc tttggccacc tggggcctg tgggtcctg tggctcctgg
tggctcctgg catcgagcg tacgtggtg tgggtcctg tgggtcctg tgggtcctg
gggagaacca tgcctcatg ggcgttgctc tccctgggtg catggcgctg gctggcgctg
caccctcat cgcgggtgg tccaggtaca tccctgggtg tccctgggtg cctggcagtc tctgtggaa
tcgactacta cagctcaag cggaggtca acaacgagtc tttgtctc tacatgttc
tggctcactt caccatccc atgattatca tcttttctg ctatgggcag ctcgtcttca
ccgtcaagga ggcgtgctg cagcagcagg agtcagccc caccagaaag gcagagaag
aggtcaccgc catggtcatc atcatgtca tgcgttctt gatctgctg gtgcccctacg
ccagcgtggc attctacatc ttcaccacc aggcctcaa cctgtctc atcttcata
ccatccagc gttcttggc aagagcgcc caccatcaa cctgtctc tatatac
tgaacaagca gttccggaac tgcgtgctc caccatcaa cctgtctc tatatac
gtgacgatga ggcctgtgt cccgtgctc agcggagag agcggagag gcccggcct
aagacctgct taggactctg tggcgacta taggcgtct ccatcccta cacttccc
cagccacagc catccacca ggagcagcg cgtgtcagaa tgaacgaagt cacataggct
ccttaatttt ttttttttt ttaagaaata ataatagag cctcactc accctgggaca
gctgagaag ggacatccac caagacctac tgatctggag tcccacgttc ccaagggcca
gcgggatgtg tgcctcctc cctcccaact catcttctc gaaacagag attctgtctt
tctggaaaag tgtcccagct tagggataag tgtctagcac aagatggggc acacagtagg
tgcttaataa atgctggatg gatgcaggaa ggaatggagg aatgaatggg aaggagaaac
atatctatcc tctcagacc tgcagacc tgcagacc agcaactcat acttggttaa tgatatggag
cagttgtttt tccctcctg ggcctcactt tcttctcta taaaatgaa atcccagatc
cctggtcctg ccgacacgca gctactgaga agacaaaag aggtgtgtgt gtgtctatgt
gtgtgtttca gcaatttga aatagcaaga agctgtacag atctagtta atgttgtgaa
taacatcaat taatgtaact agttaatac tatgattatc acctcctgat agtgaacatt
ttgagattgg gcaattcagat gatggggttt caccacaact tggggcaggt ttttaaaaaat
tagctaggca tcaaggccag accagggctg ggggttgggc tgtaggcagg gacagtcaca
ggaatgcagg atgcagtcac cagacctgaa aaaaacacac tgggggaggg gacggtgaa
ggccaaattc ccaatgagg tgagattggg cctggtgtgt caccctagt gtggggcccc
aggtccctg cctcccttc ccaatgtggc ccaatgtggc cctggtgtgt cctcagcctt
ctgggaagcca cctgctctt tgctctagca cctgggtccc agcatctaga gcctggagcc
tctagaagcc atgctcacc gccacattt aattaacagc tgagtcctgt atgtcctct

Homo sapiens

306	4254	Rhodopsin	NP_000530.1	<p>tactcgaaga gcttagaaac aaagagtggtg aaattccact gggcctaccc tccctggggga</p> <p>tgttcacggg cccagatttc cagtttccct tgccagacaa gcccatcttc agcagttgct</p> <p>agtccattct ccattctgga gaattctgtc caaaaagctg gccacatctc tgaggtgtca</p> <p>gaattaagct gctctagtaa ctgtccccc ctaattccat agcaaaagcc agaagctcta</p> <p>gctttacca gctctgctg gagactaagg caaattgggc cattaaaaag tcagctccta</p> <p>tggttggtatt aacggtggtg ggtttgtgtg ctttcacact ctatccacag gatagattga</p> <p>aactgccagc ttccacctga tccctgaccc tgggatggct ggattgagca atgagcagag</p> <p>caaagcagca cagagtcccc tgggggctaga ggtggaggag gcagtcctgg gaatgggaaa</p> <p>aacccca</p>	Homo sapiens
307	4284	Retinal G Protein-Coupled Receptor RPE	NM_002921	<p>agagacagct gggccactgg cagtgaagga gagtggagat ggcagagacc agtgccctgc A</p> <p>ccactggctt cggggagctc gagtgctgg ctgtggggat ggtgctactg gtggaagctc</p> <p>tctccggtct cagcctcaat accctgacca tcttctctt ctgcaagacc cgggagctgc</p> <p>ggactccctg ccactactg gtgtgagct tggctcttgc ggacagtggg atcagcctga</p> <p>atgcccctgt tgcagccaca tccagccttc tccggcgtg gccctacggc tcggacggct</p> <p>gccaggctca cggcttccag ggtttgtga cagcgttggc cagcatctgc agcagtgcag</p> <p>ccatcgcatg gggcgcttat caccactact gcacccgtag ccagctggcc tggaaactcag</p> <p>ccgtctctct ggtgctcttc gtgtggctgt ctctgacctg ctggggcagct ctgccccctc</p> <p>tggttggtggg tcaatatgac tatgagccac tggggacatg ctgacacctg gactactcca</p> <p>agggggacag aaacttcacc agttctctct tcacctgtc cttcttcaac ttgcccagtc</p> <p>ccctcttcat cagcatcact tccctacagtc tcatggagca gaaactgggg aagagtggcc</p> <p>atctccaggt aaacaccact ctgccagcaa ggacgctgct gctcggctgg ggcctctatg</p> <p>ccatcctgta tctatacgca gtcctgcag acgtgacttc catctcccc aaactgcaga</p> <p>tggtgccgc cctcattgac aaaaatggtgc ccacagtaa tggcatcaac tatgcccctgg</p> <p>gcaatgagat ggtctgcagg ggaatctggc agtgcctctc accgcagaag agggagaagg</p> <p>accgaaacca gtgagcctgc caccctggag tgagccccag gccaggaggc tgttccagga</p> <p>gtcctgcca gcagcctcgg tggccaagcc cagacactca cccaccttc ccagtggccc</p> <p>cgtggatcct ggtcctaggg tggacacagg attcagaaa acaccaggct gcacagaaaag</p> <p>agccagatgg acctgagtg cgttcacagc cccctacact caaggctgag aggcctcagg</p> <p>aaagtcattc ctttttaaaa ataataataa atgtaagggg gtacagtga gttttgttac</p> <p>atggatagat tgcctagtgg tgaagtctgg ccttttagtg taaccatcac cctaataata</p> <p>tacgtttgac ccattaaagt attttctcat ccttaccctc tcccacctg tccaccttct</p> <p>gagttctcaa tgtctattat tccacactcc atgtccactg gtacacatta tttagctccc</p> <p>acttacaagt gagaacatgt ggtatttgac ttcca</p>	Homo sapiens
308	4284	Retinal G Protein-	NP_002912.1	<p>MAETSALPTG FGELEVLAVG MVLLEALSG LSLNLTIFS FCKTPELRTP CHLLVLSLAL P</p> <p>ADSGISLNAL VAATSSLLRR WPGSDGCCQA HGFQGFVTAL ASICSSAAIA WGRYHYCTR</p>	Homo sapiens

309	4321	Secretin Receptor	NM_002980	Coupled Receptor RPE	SOLAWNSAVS LVLFWLSSA FWAALPLLGW GHYDEPLGT CCTLDYSKGD RNFTSFLFTM	Homo sapiens
					SFFNFAMPLF ITITSYSIME QKLKSGHLQ VNTTLPARTL LLGWGPYAIL YLYAVIADVT	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	SISPKLQMPV ALIAKMVPTI NAINYALGNE MRCRGIWQCL SPQKREKDRY K	Homo sapiens
					acgagggccg cgggagccg ggaccctcg cggggcgctg agctcccgag cgggcagagg A	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	gcaggggag cgggagccg ggagccctc gggaacgtg cgggcacacat cggccccac	Homo sapiens
					ctgtcgccg cgtgcagca gctactactg cgggtgctg cgcctcgcg cgcgactcg	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	actggagccc tccccgact atgtgacgtg ctacaagtgc tgtgggaaga gcaagaccag	Homo sapiens
					tgcccgagg aactctccag agagcagaca ggagaccctgg gcacggagca gccagtgcc	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	ggttgtgagg ggtgtggga caacataagc tgctggccct cttctgtgcc gggcgggatg	Homo sapiens
					gtggagggtg aatgcccag attctccgg atgctacca gcagaaatgg ttcctgttc	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	cgaaactgca cacaggatgg ctggtcagaa accctccca ggctaactt ggcctgtggc	Homo sapiens
					gttaatgtga acgactcttc caacgagaag cggcactct accgtctgaa cctgaaagt	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	atgtacacg tgggctacag ctctccctg gtcactctc tggctgccct tggcactctc	Homo sapiens
					tgtgctttcc ggaggtcca ctgcactcg aactacatc acatgcacct gtctgtgtcc	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	ttcactcttc gtgcccgtc caacttcac aaggacgag tgctcttct ctcagatgat	Homo sapiens
					gtcacctact gcatccgca cagggcgggc tgcaagctgg tcaatggtgt gttccagtac	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	tgcatcatgg ccaactact ctggtgctg gtggaaggcc tctacctca cacactctc	Homo sapiens
					gccatctct tcttctctga aagaaagtac ctccaggat ttgtggcatt cggatgggt	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	ttccagacca ttttgtgtg ttgtgggtt attgcccag acttctctga agatgttggg	Homo sapiens
					tgctgggaca tcaatgccaa cgcactccatc tgggtgata ttcgtgtgtc tgtgatctc	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	tccatcttga ttaatttcat cctttcata aacattctaa gaactctgat gagaaactt	Homo sapiens
					agaacccaag aaacaagagg aaatgaagtc agccattata agcgcctggc caggctccat	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	ctcctgctga tccccctct tggcatccac tacatgctc tgccttctc cccagaggac	Homo sapiens
					gctatggaga tccagtgtt tttgaaacta gcccttggt cattccagg actggtggtg	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	gccgtctct actgcttct caatggggag gtgcagctgg aggttcagaa gaagtggcag	Homo sapiens
					caatggcacc tccgtgagt cccactgcac cccgtggcct ccttcagcaa cagcaccag	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	gccagccact tggagcagag ccagggcacc tgcaggacca gcatcatctg agaggctgga	Homo sapiens
					gcagggtcac ccacggacag agaccaagag aggtcctcg aggtctggc actgctgtg	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	gacagccagt cttccacga gacacctgt gctcctctc agctgaagat gccccccc	Homo sapiens
					aggccttga ctctccgaa gggatgtgag gcatgtggg gcaggacaag ggcctgggat	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	ttggttcgt tgctctctg ggaagagaag ttcagggggt ccagaaagg acagggaat	Homo sapiens
					aaatgggtgc tgggatgaga ttc	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	MRPHLSPPLQ QLLLPVLLAC AAHSTGALPR LCDVLQVLWE EQDQCLQELS REQTGLGTE P	Homo sapiens
					QPVPGCEGMW DNISCWPSV PGRMVEVECP RFLRMLTSRN GSIFRNCTQD GWSETFPRN	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	LACGVNVDN SNEKRHSYLL KLKVMYTVGY SSSLVMLLVA LGILCAFRRL HCTRNYIRMH	Homo sapiens
					LFVSFILRAL SNFIKDAVLF SSDDVTYCDP HRAGCKLMV LQYICIMANY SWLLVEGLYL	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	HTLLAISFFS ERKYLQGFVA FGWGSPIFV ALWAIARHVL EDVGCWDINA NASIWIIRG	Homo sapiens
					PVILSILINF ILFINILRIL MRKLRTQETR GNEVSHYKRL ARSTLLLIPL FGIHYIVFAF	
310	4321	Secretin Receptor	NP_002971.1	Coupled Receptor RPE	SPEDAMEIQL FFELALGSFQ GLVAVLYCF LNGEVQLEVQ KKQQQWHLRE FPLHPVASFS	Homo sapiens
					NSTKASHLEQ SQGTCRTSII	

311	4480	Somatostatin Receptor Type 1	NM_001049	atgtttcccca atggcaccgc ctctctctct tctctctctc ctaggccccc cccgggcagc	Homo sapiens
				tgccggcgaag gcggcgccag caggggcccc ggggcggcg ctgcgccag catggaggag	
				ccaggcgcaa atgctgccca gaacgggacc ttgagcgagg gccaggggag cgccatcctg	
				atctctttca tctactcctg ggtgtgcttg gtgggccttg ttgggaactc tatggtcattc	
				tacgtgacc tgcgtatgc caagatgaag agcgccacca acatctacat cctaaatctg	
				gccattgctg atgagctgct catgtcagc gtgcccctcc tagtcacctc cactgtgttg	
				cgccactggc ccttcggtgc gctgctctgc cgctcgtgc tcagcgtgga cgcggtcaac	
				atgttcacca gcatctactg tctgactgtg ctacgctgg accgtacctg ggcgtgggtg	
				catcccatca aggcggcccc ctaccgcccg ccacccgtgg ccaaggtagt aaacctgggc	
				gtgtgggtgc tatgctgct cgtcatcctg cccatcgtgg tcttctctcg caccgcggcc	
				aacagcgacg gcacgggtgc ttgcaacatg ctcatgccag agcccgtca acgctggctg	
				gtgggcttcg tgtgttacac atttctcatg ggcttctgc tgcccgtgg ggcctatctgc	
				ctgtgctacg tgcatacat tgctaagatg cgcattgttg cctcgaaggc cggctggcag	
				cagcgcaagc gctcggagcg caagatcacc ttaatggtga tgatgtggtg gatggtgtt	
				gtcatctgct gtagtccttt ctactgttg cagctgggtta acgtgtttgc tgagcaggac	
				gacgccacgg ttagtcagct gtcggctatc ctgggctatg ccaacagctg cgccaaaccc	
				atcctctatg gcttctctc agacaacttc aagcgtcttt tccaaagcat cctatgcctc	
				agctggatgg acaacgcgc ggagagcgcg gttgactatt acgccaacgc gctcaagagc	
				cgtgcctaca gtgtggaaga cttccaacct gagaacctgg agtcggcgcg cgtcttcctg	
				aatggcacct gcacgtcccg gatcacgag ctccta	
312	4480	Somatostatin Receptor Type 1	NP_001040.1	MFNPNGTASSP SSSPSPSPGS CGEGGSRGP GAGTAADGME PGRNASQNGT LSEGGQSAIL	Homo sapiens
				ISFIYSVVCL VGLCGNSMVI YVILRYAKMK TATNIYILNL AIADELLMLS VPFLVTSILL	
				RHWPFGALLC RLVLSDAVN MFTSIYCLTV LSVDRYAVV HPIKAARYRR PTVAKVNLG	
				VWVLSLLVIL PIVFSRTAA NSDGTACNM LMPEPAQRWL VGFLYTFILM GFLLPVGALC	
				LCYVLIIAKM RMVALKAGWQ QRKRSEKKT LMVMVMVVF VICWMPFYV QLVNVFAEQD	
				DATVSQLSVI LGYANSCANP ILYGFLSDNF KRSFQRIICL SWMDNAEEP VDIYATALKS	
				RAYSVEDFQP ENLESGGVER NGTCTSRITT L	
313	4481	Somatostatin Receptor Type 2	NM_001050	atggacatgg cggatgagcc actcaatgga agccacacat ggctatccat tccatttgac	Homo sapiens
				ctcaatggct ctgtggtgc aaccaacacc tcaaacccaga cagagccgta ctatgacctg	
				acaagcaatg cagtcctcac attcatctat ttgtgtgtct gcatcattgg gttgtgtggc	
				aacacacttg tcatttatgt catcctccgc tatgccaaga tgaagacct caccacacat	
				tacatcctca acctggccat cgcagatgag ctcttcatgc tgggtctgccc ttcttggctt	
				atgcaggtgg ctctgggtcca ctggcccttt ggcaaggcca ttgtccgggt ggtcatgact	
				gtggatggca tcaatcagtt caccagcatc ttctgctga cagtcatgag catcgaccga	
				tacctggctg tgggtccacc catcaagtgc gccaaagtga ggagaccccc gacggccaag	
				atgatcacca tggctgtgtg gggagtctct ctgctggtea tcttgcccat catgatatat	
				gctgggctcc ggagcaacca gtgggggaga agcagctgca ccatcaactg gccaggtgaa	
				tctggggctt ggtacacagg gttcatcatc tacatttca ttctggggtt cctggtaacc	
				ctcaccatca tctgtctttg ctacctgttc attatcatca aggtgaagtc cctggaatc	
				cgagtgggct cctctaagag gaagaagctt gagaagaagg tcacccgaat ggtgtccatc	
				gtgggtggctg tcttcatctt ctgctggctt ccttctaca tattcaactg ttcttccgtc	

314	4481	Somatostatin NP_001041.1 Receptor Type 2	<p> tccatggcca tcagcccccac ccagccctt aaaggcatgt ttgactttgt ggtggtcctc acctatgcta acagtgtgc caaccctatc ctatatgcct tcttgtctga caacttcaag aagagcttcc agaagtgcct ctgcttggtc aagtgagcg gcacagatga tgggagcg agtacagta agcaggacaa atccggctg aatgagacca cggagacca gaggaccctc ctcaatggag acctccaaac cagtattga MDMADEPLNG SHTWLSIPFD LNSGVSTNT SNQTEPYVDL TSNVLTFIY FVCCIIGLCG P NTLVIYVILR YAKMKTITNI YILNLAIAD E LFMGLPFLA MQVALVHWPF GKALCRVVMVT VDGINQFTSI FCLTVMSIDR YLAVVHPIKS AKWRRPRTAK MITMAVWGS LLVILPIMIY AGLRNQNWR SSCTINWPG E SGAWYTGFI YTFILGFLVP LTIICLCYLF ILIKVKSSGI RVGSSKRKKS EKKVTRMVS I VVAVFIFCWL PFYIFNVSSV SMAISPTPAL KGDFDFVVL TYANSCANPI LYAFLSDNFK KSFQNVLCV KVSCTDDGER SDSKQDKSRL NETTETQRTL LNGDLQTSI </p>	Homo sapiens
315	4482	Somatostatin NM_001051 Receptor Type 3	<p> atggacatgc ttcattccatc atcgggtgtcc acgacctcag aacctgagaa tgcctcctcg A gctggcccc cagatgccac cctgggcaac gtgtcggcg gcccaagccc ggcagggtcg gccgtcagtg gcgttctgat cccctggtc tacctggttg tgtcgtgtg ggcctgctg ggtaactgc tggatcata tgggtcctg cggcacacgg ccagccctc agtcaccaac gtctacatc tcaacctggc gtggccgac gagctttca tgtggggct gccctcctg gcccccaga acgcccgtc ctactggccc ttcggctccc tcatgtgcc cctgtcatg gcggtggatg gcatcaacca gttcaccagc atattctgcc tgactgtcat gagegtggac cgtaacctg ccgtggta tccaccgc tggcccgtc ggcacacgc tccgtggcc gcacgggtca gcggtgtgt gtgggtggcc tcagcctgg tgggtctgccc cgtgtggctc ttctcgggag tgccccggc catgagcacc tgccacatgc agtgcccga gccggcgcg gcctggcgag ccggcttcat catctacacg gccgacctg gcttcttcg gccgtgctg gtcatctgcc tctgtaacct gctcatctg gtgaaggtgc gctcagctg gcgccgggtg tgggcaacct cgtgccagcg gcgccggcg tcgaacgca ggtcacgcg catgtggtg gccgtggtg cgtcttctg gctctgctg atgcccctt acgtgtcaa catcgtcaac gtggtgtgcc cactgcccga gtagcctgcc tctttgggc tctacttct ggtgtggcg ctgcccctg ccaacagctg tgccaacccc atcctttatg gcttctctc ctaccgttc aagcagggtt tccgcagggt cctgtgcgg cctcccgcg gtgtgcgag ccaggagccc actgtgggg ccccgagaa gactgaggag gaggatagg aggagagga tgggagagg agcaggagg ggggcaagg gaaggagatg aacggccggg tcagccagat cagcagcct ggcaccagc ggcaggagc gcgccccagc agatggcca gcaaggagca gcagctcta ccccaaagg cttccactg ggagaagtcc agcacgatgc gcatcagcta cctgtag MDMLHPSSVS TTSEPENASS AWPDPATLGN VSAGPSPAGL AVSGVLIPLV YLVVGVGLL P GNSLVIYVVL RHTASPSVTN YILNLALAD ELFMGLPFL AAQNALSYP FGSLMCRIVM AVDGINQFTS IFCLTVMSVD RYLAVVHPT R SARWRTAPVA RTVSAAVWA SAVVLPVVV FSGVPRGNST CHMQWPEPAA AWRAGFIYT AALFFGFLN VICLCYLLIV VKVRSAGRRV WAPSCQRRR SERRVTRMV AVVALFVLCW PFYVNLIN VVCPLEPEA FFGLYFLWA LPYANSCANP ILYGFLSYR KQGFRRVLLR PSRRVRSQEP TVGPPEKTEE EDEEEDGEE SREGGKGKEM NGRVSQITQP GTSGQERPPS RVASKEQQLL PQEASTGEKS STMRIISYL </p>	Homo sapiens
316	4482	Somatostatin NP_001042.1 Receptor Type 3	<p> tccatggcca tcagcccccac ccagccctt aaaggcatgt ttgactttgt ggtggtcctc acctatgcta acagtgtgc caaccctatc ctatatgcct tcttgtctga caacttcaag aagagcttcc agaagtgcct ctgcttggtc aagtgagcg gcacagatga tgggagcg agtacagta agcaggacaa atccggctg aatgagacca cggagacca gaggaccctc ctcaatggag acctccaaac cagtattga MDMADEPLNG SHTWLSIPFD LNSGVSTNT SNQTEPYVDL TSNVLTFIY FVCCIIGLCG P NTLVIYVILR YAKMKTITNI YILNLAIAD E LFMGLPFLA MQVALVHWPF GKALCRVVMVT VDGINQFTSI FCLTVMSIDR YLAVVHPIKS AKWRRPRTAK MITMAVWGS LLVILPIMIY AGLRNQNWR SSCTINWPG E SGAWYTGFI YTFILGFLVP LTIICLCYLF ILIKVKSSGI RVGSSKRKKS EKKVTRMVS I VVAVFIFCWL PFYIFNVSSV SMAISPTPAL KGDFDFVVL TYANSCANPI LYAFLSDNFK KSFQNVLCV KVSCTDDGER SDSKQDKSRL NETTETQRTL LNGDLQTSI </p>	Homo sapiens

317	4483	Somatostatin NM_001052 Receptor Type 4	atgagcgccc cctcgacgt gcccccggg ggcgaggaag ggctggggac ggcttggccc A tctgcagca atgccagtag cgtcccgcg gagcgagag aggcggtggc gggcccggg gacgcgggg cggcgggcat ggtcgctatc cagtgcatct acgcgctggt gtgctgggtg ggctggtgg gcaagccct ggtcatcttc gtgacatctc gtacagccaa gatgaagacg gctaccacca tctacctgct caactggcc tagccgacg agctcttcat gctgagcgtg cccttcgtgg cctcgtcggc cgcctcgcc cactggccct tcggctccgt gctgcccgc gcggtgctca gcgtcgacgg cctcaacatg ttcaccagcg tcttctgtct caccgtgctc agcgtgacc gctacgtggc cgtgggtgac cctctgcgc cggcgacctc cactctccc agcgtggcca agctcatcaa cctggcgctg tggctggcat cctgttggc cactctccc atcgccatct tcgcagacac cagaccggct cgcggcgcc aggcggtggc ctgcaacctg cagtggccac accggcctg gtcggcagtc ttcgtggctt acacttctt gctgggcttc ctgctgcccg tctggccat tggcctgtgc tacctgtca tctgggcaa gatcgcgcc gtggccctgc gcgctggctg gcagcagcg aggcgctcg agaagaaaat caccagcgtg gtgctgatgg tctgtgctg cttgtgtc tcgtggatgc cttctacgt ggtgagcgtg ctgaacctcg tcgtgaccag cctgatgcc accgtcaacc acgtgtccct tatctcagc tatgccaa gctgcgcaa cctattctc tatggcttc tctccgaaa cttccggcga tcttccagc ggttctctg cctgcgctgc tgcctcctg aagtgctgg agtgctgag gaggagcccc tggactacta tgcactgct ctcaagagca aagtggggc aggtgcatg tgccccccac taaatgcca gcaggaagcc ctgcaaccag aaccggccg caagcgcac ccccacca ggaaccacc cttctga	Homo sapiens
318	4483	Somatostatin NP_001043.1 Receptor Type 4	MSAPSTLPPG GEEGLTAMP SAANASSAPA EAEAAVAGPG DARAAGMAI QCIVALVCLV P GLVGNALVIF VILRYAKMT ATTLYLNL VADELFLMSV PFVASSAALR HWPFGSVLCR AVLSVDGLNM FTSVFCLTVL SVDRYAVVH PLRAATYRRP SVAKLINLGW WLASLVTLR IAIFADTRPA RGGQAVACNL QWHPAWSAV FVYTFLLGF LLPVLAIGLC YLLIVGKMRA VALRAGWQQR RRSEKKITRL VLMVVVVFVL CWMFPYVVQL LNLVWTSIDA TVNHVSLILS YANSCANPIL YGFLSDNFR SFQRLCLRC CLLEGAGGAE EEPLDYATA LKSKGGAGCM CPPLKCCQEA LQPEPGRKRI PLPTTTTF	Homo sapiens
319	4484	Somatostatin NM_001053 Receptor Type 5	atggagcccc tgttcccagc ctcacgccc agctggaagc cctcctccc ggggctgccc A tctggagggc gtgacaacag gacgtgggtg gggccggcg cctcggcagg gggccggggc gtgctgtg cctgtctgta cctgtggtg tgtgcgggcg ggctggcg gaaacgctg gtcatctacg tgggtgctgc cttgcgcaag atgaagacgg tcaccaaat ctacattctc aacctggcag tggcgacgt cctgtacatg ctggggctgc cttcctggc cagcagaac gccggtcct tctggccctt cggcccgctc cgtgcccgc tggatcatg cgtgacggc gtcaaccagt tcaccagtgt cttctgcctg acagtcatga gcgtggaccg ctacctggca gtggtgacc cgtgagctc ggcggctgg cgcgcggcg gtgtggccaa gctggcgagc gccgcgccct ggttctgtc tctgtgcatg tctgtgcgc cctgtgtgt cgcggacgtg caggagggcg gtacctgcaa cgcagctgg cggagcccg tggggctgtg ggcggccgtc ttcatcatct acacggcct gctgggcttc ttcgcgcgc tgcgtgtcat ctgctgtg tacctgtca tctgtgtgaa ggtgagggcg gcggcgctgc cgtggggcgt cgtgcggcg cgctcgagc ggaagtgac gcgatgggtg tgggtgggtg tgcgtgtgt tgcgggatgt tggctgccc tcttaccgt caacatcgtc aacctggcg tggcgctgcc cagagagccc	Homo sapiens

Homo
sapiens

320 4484 Somatostatin NP_001044.1 MEPLFPASTP SWNASSPGAA SGGDNRTLV GPAPSAGARA VLVPVLYLLV CAAGLGNTL P

Receptor
Type 5

gcttcgcgcg gcctctactt cttcgtgggtc atcctctcct acgccaacag ctgtgccaac
cccgctcctt acggcttctt ccttgacaac ttcgcccaga gttctcagaa gttctgtgtc
ctccgaaagg gctctgtgtc caaggacgct gacgccaagg agccggtcc agacaggatc
cgcgacagc aggaggccac gccgcccgcg caccgcccgc gcttatgcag
accagcaagc tgtga

VIYVLRFAK MKTVNTIYIL NLAVADVLYM LGLPFLATQN AASFVFPFV LCRLVMTLDG
VNQTSVFCL TVMSVDRLA VVHPLSSARW RRPVAKLAS AAANVLSLCM SLPLLVFADV
QEGGTCNASW PEPVGLWGA VFIYTAVLGF FAPLLVICLC YLLIVVKVRA AGVRVGCVR
RSEKVTMNV LVVVLVFA GC WLPFFTVNIV NLAVLPQEP ASAGLYFFV ILSYANSCAN
PVLVYGLSDN FRQSFQKVL LKKGSGAKDA DATEPRPDRI RQQEATPPA HRAAANGLMQ

TSKL

321 4552 Tachykinin NM_001058
Receptor 1

Homo
sapiens

aattcagagc caccgcgggc aggcggggcag tgcattccaga agcgtttata ttctgagcgc A

cagttcagct ttcaaaaaga gtgctgccc taaaaagcct tccaccctcc tgtctgcttt
agaaggaccc tgagcccccag gcgcagccca caggactctg ctgcagaggg ggttctgtga
cagatagtag gctttacgct tagcttcgaa atggataaag tctctccggt ggactcagac
ctctcccccac acatctccac taacacctcg gaacccaatc agttcgtgca accagccctg
caaatgtcc ttggggcagc tgcctacacg gtcatgtgg tgacctctgt ggtgggcaac
gtggtagtga tgtggatcat cttagccac aaagaatga ggacagtgc gaactatctt
ctggtagaac tggccttcgc ggaggcctcc atgctgcat tcaatacagt ggtgaacttc
acctatgctg tccacaacga atggtactac ggcctgttct actgcaagt ccacaacttc
tttcccatcg ccgctgtctt cgcagctatc tactccatga cggctgtggc ctttgatagg
tacatggcca tcatacatcc cctccagccc cggctgtcag ccacagccac caaagtggc
atctgtgtca tctgggtcct ggctctcctg ctggccttcc cccagggcta ctactcaacc
acagagacca tggccagcag agtcgtgtgc atgatcgaat ggccagagca tccgaacaag
atttatgaga aagtgtacca catctgtgtg actgtgctga tctacttct cccctgctg
gtgattggct atgcatacac cgtagtggga atcacactat gggccagtga gatccccggg
gactcctctg accgctacca cagcaagtc tctgccaagc tgaaggtgggt caaatgatg
attgtcgtgg tgtgcacctt cgcctctg cggctgcctt tccacatctt ctctcctctg
ccctacatca accagatct ctacctgaag agttttatcc agcaggtcta cctggccatc
atgtggctgg ccattgagct caccatgtac aaccccatca tctactgctg cctcaatgac
aggttccgtc tgggcttcaa gcatgccttc cgggtgtgccc ccttcacag cgcggcgac
tatgaggggc tggaaatgaa atccaccgg tatctccaga cccagggcag tgtgtacaaa
gtcagccgcc tggagaccac catctccaca gtgggtgggg cccacagagga ggagccagag
gacgccccca aggccacacc ctctgctcgc tctctccca atgtgctctc ctaggccaca
gactccaaga ccattgacga gacttccagc tttgacctgc ctcccttcat gcatggaaat
gggcttttgg cagggtgcag cccactgccc tttagacctgc atgtgctctc ctatggaaat
tcccttcac tggaaacctc agaaacacc tcacactggg acttgcaaaa agggtcagta
tgggttaggg aaaaattcc atccttgagt caaaaaatct caattcttcc ctatctttgc
caccctcatg ctgtgtgact caaaccaat cactgaactt tgtgagcct gtaaaataaa
aggtcggacc agcttttct caagagccca atgcattcca ttcttggag tgactttggc

322	4552	Tachykinin Receptor 1	NP_001049.1	MDNVLPVDS KRMRTVTNYF YSMTAVAFDR MIEWPEHPNK SAKRKVVMNM NPIIYCCCLND VGAHEEPE	tgcatgag LSPNISTNTS LVNLAFAEAS YMAIIHPLQF IYKYYHICV IVVCTFAIC RFRLGFKHAF DGPKATPSSL	tgctcattc EPNQFQPAW MAAFNTVWF RLSATATKV TVLIYFLPL WLPFHIFLL RCCPFISAGD DLTSCSSRS	aggatg QIVLWAAAYT TYAVHNEWY ICVIWTLALL VIGYAYTVVG PYINPDLYLK YEGLEMKSTR YLTQGSVYK FSSNVLS	VIVVTSVGN GLFYCKFHN LAFPPGYST TETMPSRVVC ITLWASEIPV KFIQOVLAI MWLAMSSTMY VSRLETTIST	Homo sapiens
323	4687	Thrombin Receptor	NM_001992	gpgggggggc gggcccagag ccgcccgcgc gctgcgcgag ggaagagccg gctcccgcag cctcccgcag gctgcctggt ccgcgaggcc ggaaccccaa taactgaata cattcatctc catctgtgta tggtcatcct cgccagatgt gtgattggca gtacgcctc atcccatgca tctgggcttt tgcccgggct actatgccta ccacggctctg gcaagaagtc tcggaccacac cagaggctgc tcgacccctc tatgtcgcaa gtaaaaatgga aggaatggg tcttatagt tgcatacctg aacaggacga aatgtcactt	gacagagcc cggtccagc gaccgcgc ggtgccttg gctcccgc cctcccgc gctcccgc ttcagctgt agaatcaaaa tgataaatat cagattagtc agaagatgcc caccggagtg gaaatgaag gctgtttgtg gttgggtct tatctgtct gtccctctc ggccatcgca caacatcact ctacttctca ttatgtgtct ccgggctttg aaacgtctc ctacttggc aatctactat agaaagtctc tacctgctct actgctggga ccccaccaca ctttttatgg gatgacggtg ctggatatag	agggggctt gacagactc cccagtcgc accctgatct ccgcagagc ccgcagagc cagcgcgc ttcagctgt gcaacaaatg gaacatttt tccatcaata tcgggatatt ttgtagtca gtcaagaagc gtgtgtctc tggtacttc gggtacttc gggtacttc acctgtcatg gcttctctg atcattcgat ttcctgtcag ctgattgctc tacctctct tacgttctc gatcccgca agtaacctga ggttaaaaa ggttaaaag ttcactctt gagctgtcaa ggtgttcaa tattccaag ggaatattgc tatacatct	gctgaggag ccggaggccc ctaaccgccc cacctgcgc ggtgaagcgc gacaaatggg gtgtctgccc tccccggta ggagaaaaat tcttcaaaaa ctggctgaca aacatcatg gtacatgctg cagctggcca cagctattac tcgtctgccc ccggtttctg tcccttcaat caaggagcaa tgaaacccctg tttgtgccc ttccgcagtt ctgcattctc cctttctcac cagcagcata gaggtacgtc gaggtacgtc cagtgggcag atacaaaaa atacaacat aaaagtgaat aaaacacag ttgtcaatta caatgctaca tatacatct	cgcggggag cttctcgct cagacacagc tctgcctgcc agcagcccca cgcgggcggc cgaccccggg ttctcttca gaaagtgggt caacttctg ctctttgtcc gccatcgtt gtacatgctg cacttggcca tttccggcca tactgtaaca gctgtgtgt tgtctggcca accatccagg ctcgaaaggct ctgatcattt gccaaccgca atcatttgc acttccacca agctcgtgca tacagtatct ttgatggcaa ctgttaactt aacctgagga atgtacgact ccagaaaagt gtaataaatg tatatgtaga	Homo sapiens

324	4687	Thrombin Receptor	NP_001983.1	<p> tgtatgcaca cacatatatt atttgcaagt cagtataaga taggcacttt aaacactctt ttccccgcac ccagacaatt atgaaaaataa tctctgattc cctgatttaa tatgcaaatg ctaggttggg agagtttagc cctgaacatt tcatgtgtgt catcaacagt gagagactcc atagtttggg ctgttaccac ttttgcaaat aagtgtattt tgaattgtt tgacggcaag gtttaagtta ttaagaggta agacttagta ctatctgtgc gtagaagtcc tagtgttttc aattttaaac atatccaagt ttgaattcct aaaattattg aaacagatga aaagcctctg ttttgatag ggtagtattt ttacatttt acacactgtg cacataagcc aaactgagc ataagtcctc tagtgaatgt aggtgggtt tcagagttag ctattcctga gagctgcatg tgtccgccc cgatggagga ctccaggcag cagacacatg ccagggccat gtcagacaca gattggccag aaaccttctt gctgagcctc acagcagtga gactggggcc actacatttg ctccatctc ctgggattgg ctgtgaactg atcatgttta tgagaaactg gcaaaagcaga atgtgatc ctgagaggta atgaccatga aagacttctc taccatctt aaacaaacg aaagaaggca tggacttctg gatgccatc cactgggtgt aaacacatct agtagtgtt ctgaaatgtc agttctgata tgggaagcacc cattatgctg tgtggccat ccaataggtg ctgagtgtac agagtggaat aagacagaga cctgcccctc agagcaaat agatcatgca tagagtgtga tgtatgtga ataatatgt ttacacaaa caaggcctgt cagctaaaga agtttgaca ttgggttac tattctgtg ggtataact taatgaaaac aatgcagtac aggacatata ttttttaaaa taagtctgat ttaattggc actatttatt tacaatgtt ttgctcaata gattgctcaa atcagggttt cttttaagaa tcaatcatgt cagctgtgctt agaaataaca gaagaaaata gaattgacat tgaattctag gaaaattatt ctataattc cattactta agacttaatt agacttttaa agcattttt aacctcctaa gtatcaagta tagaaaaatc tcatggaatt cacaagtaa ttggaaatt aggttgaaac atatctctta tcttacgaaa aaatggtagc attttaaaca aaatagaag ttgcaaggca aatgtttatt taaaagagca gccaggcgc ggtggctcac gcctgtaac ccagcacttt gggaggctga ggcgggtgga tcacgagtc aggagatcga gaccatctg gctaacacgg tgaaccccg ctctactaaa aatgcaaaaa aaattagccg ggcgtgtgg caggcacctg tagtcccagc tactcgggag gctgaggcag gagactggcg tgaacccagg agcggaacct tgtagtgagc cgagatcgcg ccactgtgct ccagcctggg caacagagca agactccatc tc MGPRLLIVA ACFSLCGPLL SARTRARRPE SKATNATLDP RSFLLRNPNP KYEPPWEDEE P KNESGLTEYR IVSINKSSPL QKQLPAFISE DASGYLTSSW LTLFVPSVYT GVTVVSLPLN IMAIVVFILK MKVKKPAVY MLHLATADVL FSVLPFKIS YVFSGSDWQF GSELCRFVTA AFYCNMYASI LLMTVISDR FLAVVYPMQS LSWRTLGRAS FTCLAIWALA IAGVPLVLK EQTIQVPLN ITTCHDVINE TLLEGYYAYY FSASFVFFF VPLIISTVCY VSIIRCLSSS AVANRSKSR ALFLSAAVFC IFICFGPTN VLLIAHVSFL SHTSTTEAY FAXLLCVCVS SISSCIDPLI YYYASSEQR YVYSILCKE SSDPSSYNS GQLMASKMDT CSSNLNLSIY KKLLT </p>	Homo sapiens
325	4734	Thyrotropin Releasing Hormone Receptor	NM_003301	<p> tagcttaag ccactgaaga tggaaaacga gacagtcaat gaactgaacc aaacacagct A tcagccacga gcagtggtgg ccttagaata ccagtggtc accatcttac ttgtactcat tatttggtgc ctgggcatg taggcaacat catggtagtc ctggtgtgca tgagaaccaa gcacatgagg cccccacaa actgctacct ggtgagctg gcagtagctg atctcatggt cttggtggcc gcaggcctcc ccaacataac agacagtatc tacggttctt ggtgtatgg </p>	Homo sapiens

326	4734	Thyrotropin Releasing Hormone Receptor	NP_003292.1	ctatgttggg tgcctctgca ttacttacct ccagtatttg ggaattaatg cactctcttg ttcaataaca gcctttacca ttgagaggtg catagcaatc tgtcacccca tcaaaagccca gtttctctgc acattttcca gagcaaaaa gattatcatc ttgtctggg cttcacatc tctttactgt atgctctggt tcttcttgct ggatctcaat attagcacct acaaaagatgc tattgtgata tccctgtggct acaagatctc caggaattac tactcaccta ttactcta ggactttggt gtcttttatg ttgtgccaat gatcctggct accgtcctct atggattcat agctagaatc cttttcttaa atccattcc ttcatgctct aaagaaaact ctaagacatg gaaaaatgat tcaaccatc agaacacaaa tctgaatgta aatacctcta atagatgttt caacagcaca gtatcttcaa ggaagcaggt caccagatg ctggcagtg ttgtaattct gtttgcccct ttatggatgc cctacaggac tctagtgtt gtcaactcat ttctctccag tcctttccaa gaaaattggt tttgtctct ttgcagaatt tgcatttato tcaacagtg catcaaccg gtgatttaca atctcatgct ccagaaattc cgtgcagcct tcagaaagct ctgcaactgc aagcagaagc caacagagaa accgtctaac tacagtgtg cctaaatta cagcgtcatc aaggagtcag accatttccag cacagagctt gatgatata ctgtcactga cacttaacctg tctgccaaa aagtgtctt tgatgacacc tgcttggtt ctgaggtatc ctttagccaa agttgattca tgaattagaa gaaaatggat gacaaagaaa ttgagaatct gtcagtcac caacaaaag gagaacatgg ccaatagtc tatgtgaaga cagagcagat cagctcttgt caatgctcta acaaacgg	Homo sapiens
327	4944	Angiotensin II Type 1 Receptor	NM_000685	attcggagct gcctcctgc caatgattcc agcgcctgac agccaggacc ccaggcagca A gcgagtgaaca ggacgtctg accggcgcgc cgctagcagc tctgccgggc cgcggcggtg atcgatggg agcggctgga gcgacccag cgagtggagg cgacacagcc ggacgcgag gcggcgccg gcgacccgc accagcgcag ccggccctcg gcgggacgtg acgcagcgc cgggcgccg gttgatatt tgacaaattg atctaaaatg gctgggtttt tatctgaata actcactgat gccatcccag aaagtccgca ccaggtgtat ttgatatag gtttgaaca aattcgacc aggtgatcaa aatgattctc aactcttcta ctgaagatgg tattaaga atccaaagatg attgtcccaa agctggaagg cataattaca tatgtgtcat gattcctact ttatacagta tcatctttgt ggtgggaata ttgggaaca gcttgggtgt gatagtcatt tacttttata tgaagctgaa gactgtggcc agtgttttct ttttgaattt agcactggct gacttatgct tttactgac ttggccacta tgggctgtct acacagctat ggaataccgc tggcccttgg gcaattacct atgtaagatt ctttcagcca ccgtcagttt caacctgtac gctagtgtgt ttctactcac gtgtctcagc atttcagcag ccttggtat tgttccccca atgaagtccc gccttcgacg cacaatgctt gtagccaaag tcacctgcat catcatttgg ctgctggcag gcttgccag tttgccagct ataattccatc gaaatgtatt ttctattgag aacaccaata ttacagtgtg tgccttccat tatgagtccc aaattcaac ccttcgata	Homo sapiens

328	4944	Angiotensin II Type 1 Receptor	NP_000676.1	<p>gggctgggccc tgacacaaaaa tatactggggt ttctgtgttc cttttctgat cattcttaca agttatactc ttatttggaa ggcctaaag aaggcttatg aaattcagaa gaacaaacca agaaatgatg atatttttaa gataattatg gcaattgtgc ttttctttt cttttcctgg attcccacc aaatattcac ttcttggtat gtatggcat aactaggcat catcgtgac tgtagaattg cagatattgt ggacacggcc atgcctatca ccatttggat agcttatttt aacaattgcc tgaatcctct tttttatggc ttctgtggga aaaaatttaa aagatatattt ctccagcttc taaaatatat tccccaaaa gccaaatccc actcaaacct tcaacaaaa atgagcagc ttctctaccg cccctcagat aatgtaagct catccaccaa gaagcctgca ccatgttttg aggttgatg acatgttcga aacctgtcca taaagtaatt ttgtgaaaga aggagcaaga gaacattcct ctgcagcact tcactaccaa atgagcatta gctacttttc agaattgaag gagaaaatgc attatgtgga ctgaaaccgac ttttctaaag ctctgaacaa aagcttttct ttcttttgc aacaagacaa agcaaaagcca cattttgcat tagacagatg acggctgctc gaagaacaat gtcagaaact cgatgaatgt ttgtcctgtt attttttatt tccacataaa tgacagaaat gcaatctccc tagctgctt ttgtcctgtt attttttatt tccacataaa ggtattttaga atatattaaa tctgttagag agcaaacagga gatgagagtt ccagatttgtt ctgtccagtt tccaaaggcc agtaaaagtt tctgtccggt ttccagctat tagcaactgt gctacacttg cacctggtag tgcacatttt gtacaaaagt atgctaagca gtagtctca agttgcagat ctttttgtga aattcaacct gtgtcttata ggtttacact gccaaaaaaa tgccccgaag atggcttatt tgtataatgg tgttactaaa gtcacatata aaagttaaac tacttgtaaa ggtgctgcac tgggtcccaag tagtagtgct ctcctagtag attagtttga tttaatatct gagaagtgtg ttagtattgt ggtaaaaaga ttatatatca taaagtatgc cttctgtgtt aaaaaaagta tataattctac acatatatat atatgtatat ctatatctct aaactgctgt taattgatta aaactgtgga aagttatat tactttaaaa taaaaataat ttatgc</p>	Homo sapiens
329	4946	Angiotensin II Type 2 Receptor	NM_000686	<p>IKRIQDDCPK AGRHNYIFVM IPTLYSIIFV VGIFGNSLVV IVIYFYMKLK P TVASVFLLNL ALADLCFLLT LPLWAVYTAM EYRWPFNGYL CKIASASVSF NLYASVFLLT CLSIDRYLAI VHPMKSLRR TMLVAKVTCI IWLWLAGLAS LPALIHNRVF FIENNTITVC AFHYESQNST LPIGLGLTKN ILGFLFPFLI ILTSYTLWIK ALKKAYEIQK NKPRNDDIFK IIMAILVFFF FSWIPHQIFT FLDVLIQLGI IRDCRIADIV DTAMPITICI AYFNCLNPL FYGFLGKKFK RYFLQLLKYI PPKAKSHSNL STKMSTLSYR PSDNVSSSTK KPAPCFEVE acgtcccagc gtctgagaga acgagtaagc aagaattcaa agcattctgc agcctgaatt A ttgaaggagt gtgtttaggc actaagcaag ctgatttatg ataactgctt taaacttcaa caaccaaagg cataagaact aggaagtgtc gacatttcaa tatgaaggcc aactccaccc ttgcccactac tagcaaaaaa attaccagcg gtcttcaatt cgggcttctg aacatctctg gcaacaatga gtctaccttg aactgttcac agaaaccatc agataagcat ttagatgcaa ttcctattct ttactacatt atatttgtaa ttggatttct ggtcaatatt gtcgtgggta cactgttttg ttgtcaaaa ggtcctctag aggtttctag catatacatc ttcaacctcg ctgtggctga ttactcctt ttggctactc ttctctctag ggcaacctat tattcttata gatagtactg gctctttgga cctgtgatgt gcaaaagttt tggttctttt cttacctga acatgtttgc aagcattttt ttatcacct gcagagtgt tgataggtac caatctgtca tctacccctt tctgtctcaa agaagaaatc cctggcaagc atcttatata gtccccctg</p>	Homo sapiens

330	4946	Angiotensin II Type 2 Receptor	NP_000677.1	<p> tttggtgtat ggcctgtttg tctcattgc caacatttta ttttcgagac gtcagaacca ttgaatactt agagagtgaat gcttgcattha tggctttccc acctgagaaa tatgccaat ggtcagctgg gattgcctta atgaaaaata tcttggtttt tattatccct ttaatatcca tagcaacatg ctattttgga attagaaac acttactgaa gacgaatagc tatgggaga acagataaac cgtgaccaa gtcctgaaga gtcagctgc tgttgttctg gcttcatca tttggtgctt tcccttccat gttctgacct tccctgagtc tctggcctgg atgggtgtca ttaatagctg cgaagtata gcagtcattg acctggcact tcttttgcc atcctctgg gattaccaa cagctgcgtt aatcgtttc tgtattggtt tgttgaaaac cgttccaac agaagctccg cagtgtgtt aggttccaa tctctggct ccaagggaaa agagagagta tgtcttgccg gaaaagcagt tctcttagag aatggagac ctttgtgtct taaacggaga gcaaaatgca tgtaataaac atggctactt gctttgaggc tcaccagaat tatttttaag tggttttaat aaaaataaa aattccct aatctttct gaatcttctg aaaccaaag taactatgtt tctgtccag tgactttcag gaatgcccatt tgtttctga tatgttgtta caagatttca ttggtgagac atatttaca cctagaagta actggtgata tatctcaat tgtaattaat aatagattgt gaataatgat ttggggattc agatttctct ttgaacatg cttggttttc ttagtgggt tttatatcca tttttatcag gatttctct tgaaccagaa ccagcttttc aactcattgc atcatttaca agacaacatt gtaagagaga tgagcacttc taagttgagt atattataat agattagtagc tggattattc aggttttagg catatgcttc tttaaaaaacg ctataaatta tattctctt gcatttccact tgagtggagg tttatagtta atctataact acatatgaa tagggctagg aatatagatt aatcactact cctatgcttt agcttatttt tacagtata gaaagcaaga tgtactataa catagaattg caatctataa tatttggtg ttcactaaa tctgaataag cactttttta aaaaactttct actcatatta atgattgttt aaaggtttct atttctctg atactttttt gaaatcagta aacactgtgt attgtgttaa aatgtaaaag tcacttttca catccttgac tttttagatg tgctgctttg atatatagga cattgattg attttatta ttaatgcttt ggttctgggt tgttccctaa aatatctggg tggcttaaaa aaaaactttt aacttgtaat aaaccttaa ctggcatagg aaatggtatc cagaatggaa ttttgctaca tgggtctgg gtgggggcaa agagacccag tcaattacat gtttggtacc aagaaaggaa cctgtcaggg cagtacaatg tgactttgaa aatataacc gtgggggtag ttttacccta tatctataa cactgtttgt tccagaatct gtatgattct atggagctat ttttaaccaa tgcaggtctt aga VNIVVTLFC QKGPVKVSS IYIFNLAVAD LLLIATLPLW ATYYSRYDW LFGPVMCKVF GSFLTLMFEA SIFFITCMV DRYQSVIYPF LSQRNPWOA SYIVPLVWCM ACLSSLPTFY FRDVRTIEYL GVNACIMAF PEKYAOWSAG IALMKNILGF IIPLIPIATC YFGIRKHLK TNSYGNRIT RDQVLKMAA VVLAFLIWL PFHVLTFDA LAWMGVINSC EVIAVIDIAL PFAILLGFTN SCVNPFLYCF VGNRFQOKLR SVFRVPIITWL QGKRESMSCR KSSSLREMET FVS </p>	Homo sapiens
331	5072	Pyrimidinerg ic Receptor P2Y4	NM_002565	<p> atggccagta cagagtcctc cctgttgaga tccctaggcc tcagcccagg tccctggcagc A agtgaggtgg agctggactg ttggtttgat gaggatttca agttcatcct gctgctgtg agctatgcag ttgtctttgt gctgggcttg gctgttaacg ccccaacct atggctcttc atcttccgcc tccgaccctg gcatgcaacg gccacctaca tgttccacct ggcatgtgca </p>	Homo sapiens

332	5072	Pyrimidinerg NP_002556.1 ic Receptor P2Y4	gacacctgt atgtgtgtc gctgcccacc ctcatctact attatgcagc ccacaaccac tgcccccttg gactgagat ctgcaagtct gtcgctcttc ttttctattg gaacctctac tgagtgctcc ttttctctac ctgcatcagc gtgcacccgt acctgggcat ctgcaaccac cttcgggacac tacgtctggc cgcgcctcgc ctgcacccgt tctctgctt ggcagtttgg ttggtctag cggctgctt cgtgcccac ctgttcttg tcacaaccag caacaaaggg accaccgtcc tgtgccatga caccactcgg cctgaagagt ttgaccacta tgtcacttc agctcggcgg tcatggggct gctctttggc gtgcctgccc tggcactct tgttgcctat ggactcatgg ctgctgctt gctatcagccc ttgccaggt ctgcacagtc gctctctgc ctcgcctctc tccgcacct agctgtggtg ctgactgtct ttgctgtctg cttcgtgcct ttccacatca cccgcacct ttactacctg gccaggctgt tggaaagctga ctgcagagta ctgaacattg tcaactgtgt ctataaagt actcggcccc tggccagtc caacagctgc ctggatcctg tgcctactt gctcactgg gacaaatct gacgtcagct cgtcagctc tgtgtgtgtg gcaagcccca gccccgcacg gctgcctct cctggcact agtgcctctg cctgaggata gcagctgcag gtgggaggcc acccccagg acagtagctg ctctactcct agggcagata gattgtaa MASTESSLLR SLGLSPGPGS SEVELDCWFD EDFKILLPV SYAVFVLGL GLNAPTLWLF P IFRLRPWDAT ATYMFHLALS DTLVLSLPT LIYYAAHNN WPFGEICKF VRFLFYNNLY CSVLFLTCIS VHYLGICHP LRALRWGRPR LAGLLCLAVW LVVAGCLVPN LFFVTTSNKG TTVLCHDTR PEEFDHYVHF SSAVMGLLFG VPLVTLVY GLMARRLYQP LPGSAQSSSR LRLRTIAV LTVFAVCVP FHITRTIYLL ARLEADCRV INIVNVYKV TRPLASANSC LDPVLYLLTG DKYRRQLRQL CGGKQPRT AASSIALVSL PEDSSCRWAA TPQDSSCSTP RADRL	Homo sapiens
333	5117	Vasopressin NM_000706 V1A Receptor	taattgcttg aaggatttt tccagacagg tggctctgaa acctttacc tattaccttc A catccctgaa ccatttcaat cttctgcctc ctggatatct tggagaaaaat gaaccaacac aacacagctt tcagttttta gagcatttcc cccatacaga acattgtctt acttgatctt cccgtgacc tcaacaacag gaaaggcagg tcttttcaat tccatttata agacgcacag accagagatt atctagccac aggaagcagg actccagatt tcaagtcacg catctcaacg tgacaacctt ggtaactctg catgaacgga ctggatagta aagtggaaatt attactgaga actgcaatga ataaaatctt ttgcattttt tgcctacgtt tcacagaggg tgatatattt ctgaggcaat taaatttata ccacggccac aatactgaaa cgttctgacc acaaaagtca tgctcctgca tctacacagc agataaactgc agaaacggct tcttttcttc cttgaaaaat tgctgaaaaa cagctcccc ttgctgtccg tcgaggcata tcttcaccaa cgttaaaaa gagctgaggg agatcgcat tctgcctccc tcccgccttg cagaggggct ccagctgttc agagtaacgg attactaggt aggtgtgtgt tccccctct tcccagggc tcttctctt ctttgagatt gcctcttct tactcctgag cacaggagcc gggcgggttt tctgtccctt gccctggaca gcactgcctg gatggcgtt gtccggcagc tgcctcttgt ccacaaaa agatgtcccc acgactcagt agtaaccaga cgttccccac ggaccactgc ggcaaat cgccatccc cgtgtgga atcaggcttt tcccgcagaa aaccccagga atctagagaa aactccttaa gtccctagtc tccatagaga aaaccagag acactcccc caaaccggc tgtgaataca ggacacagc cactggggc ctgaaagtga tgagtgcgtt ctccgctg caaacatagg gtaataata gcatgcatca aagacgttac taggaagaga tagctcttta	Homo sapiens

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335	5118	Vasopressin V1B Receptor	NM_000707	<p> MRLSAGPDAG PSGNSSPWPP LATGAGNTR EAEALGEGNG PPRDVRNEEL AKLEIAVLAV P TFAVAVLGNS SVLLALHRTF RKTSRMHLFI RHLSLADLAV AFFQVLPQMC WDITYRFRGP DWLCRVVKHL QVFGMFASAY MLVVTADRY IAVCHPLKTL QQPARRSRML IAAWVLSFV LSTPQYFVFS MIEVNNVTKA RDCWATFIQF WGSRAYVTWM TGGIFVAPV ILGTCYGFIC YNIWCNVRGK TASRQSKGAE QAGVAFQKGF LLAPCVSSVK SISRAKIRTV KMTFVIVTAY IVCWAPFFII QMWSVWDPMs VMTESENPTI TITALLGSLN SCCNPWIYMF FSGHLLQDCV QSFPCQNMK EKENKEDTDS MSRRQTFYSN NRSPTNSTGM WKDSPKSSKS IKFIPVST ctccagccgc tgctcaccag gcagagcgag cgggcttggc tgggcttcc tgcctgagc A gcgacaccca ctgctccgga cgcgcctcc aagcaggctg aaggcttcc gctcttggct tccagaaaaa tttggagaaa gagaatttga ggcggattgg aggtggtag cccctcccca gccttcttcc tctccagaa cctcactct gcacagctc cccattctt cccgtcttga ttccccatct tctgacccc tcttctccc tctctgggt cgtccaggc cacatttct cttccgaat ctcatctcc ctctctctct ctatccagg cctctgaac atttccgct atttggaaac ctctccctg tcatctcaa cgttctctc ttctctccac ctccctgccc actccatttt atccatcaa cctctccact tggatccaca cctcccttc atcttccct ccagcaaac ctgtctcatg gattctgggc ctctgtggga tggcaacccc accctcggg gcacctctc tgcctccaat gccacaacac cctggctggg ccgggatgag gactggcca aggtggagat cggagtctct gccactgtcc tgggtctggc gaccggggc aacctggctg tgctgtgac cctgggcca cttggccgca agcgtccc cgtgacctg ttctgtctgc acttagccct gacagacctg gccgtgggc tcttccaggt ctgcccacag ctgctgtggg acatcaccta cgccttccag gcccgcgacc tctgtgcag gccgtcaag tacctgcagg tgctcagcat gttgctctc acctacatgc tgggtggccat gacgtggac cgtacctgg ctgtctgtca cccctgccc agcctccagc agccaggcca gtcacacctc ctgctcatcg ctgtctccctg gctgtggcc gccatttca gctctccca agtcttcat ttttccctgc gggaggtgat ccagggtca ggggtgtgg actgctgggc agacttcggc ttcccttggg ggccacgggc ctacctcacc tggaccacc tggctatctt cgttctgccc gtgacctgc tcacggcctg ctacagcctc atctgcatg agactgttaa aaacctaaaa gtcaagacac aggcctggcg ggtgggagga gggggtggga ggaactggga caggccctca ccttccact tagctgccac cactcggggg ggtccatctc ggttcagcag catcacacc atctcaggg ccaagatccg aacagtgaag atgaccttg tcatcgtgtg ggcctacatc gcttgcgtgg ctcccttctt cagtgtccag atgtgggtccg tgtgggacaa gaatgccct gatgaagatt </p>	Homo sapiens

336	5118	Vasopressin V1B Receptor	NP_000698.1	<p>ccaccaatgt ggctttcacc atctctatgc ttttgggcaa cctcaacagc tgctgcaacc cctggatcta catgggcttc aacagccacc tgttaccgcg gcccctgcgt caccctgcct gctgtggggg tccccagccc aggatgcgcc ggcggtcttc cgacggcagc ctctcgagcc gccacaccac gctgctgacc cgtccagct agtcagccac cctcagcctc agcctcagcc taacctcag tgggaggccc aggcctgaag gctcagccag ggaactggag ctggcagatg gggaaggcac cgctgagacc atctctttt agaaagact cgctggggtc tggtaactgcc cccaggacta gtggaggttc tctgcccacc tcaggcactg gaaatgagag ctgggaggggt aagggttga gtagaggag gccctgtctg aagcagacc aaaagggcag aatgggtccc ctacctgtgt gtcacagctg cccctagtgt gagggctgcc tcataagctc ccaatctcag acactggcag tcaggagaaa tcaaaactgcc tgtctccctg gtcctgccc attcataagg tgtccatgca cacatgtgt cccagatcta ggcaggccta gcatggtgt gtcagggggt ccacgggtgg caggaattca gaggtggcc tgtgcccgt gctacctgtc tccattctaa cctgactggc acatctcagc ctaaccagga gagggagaa gtgaaaaacc gtgaggagga ctctatttgg atcctggatt tgttgtgtt gttgtgttg ttgttagaga gaa</p>	Homo sapiens
				<p>MDSGPLWDAN PTPRGTLAP NATPWLGRD EELAKVEIGV LATVLVIATG GNLAULLTLG P QLGRKRSRMH LFLVHLALTD LAVALFQVLP QLLWDITYRF QGPDLLCRAY KYLQVLSMFA STYMLLAMTL DRYLAVCHPL RSLQPGQST YLLIAAPWLL AAIFSLPQVF IFSLREVIQG SGVLDCWADF GFPWGPRAYL TWTLAIFVL PVTMLTACYS LICHEICKNL KVKTQAWRVG GGWRWTWDRP SPSTLAATR GLPSRVSSIN TISRAKIRTV KMTFVIVLAY IACWAPFFSV QMWVSWDKNA PDEDSTNVAF TISMLLGNIN SCCNPWYMG FNSHLLPRPL RHLACCGFPQ PMRRRLSDG SLSSRHHTLL TRSSCPATLS LSLSLTISGR PRPEESPRDL ELADGEGTAE TIIF</p>	
337	5119	Vasopressin V2 Receptor	NM_000054	<p>agaagatcct gggttctgtg catcgtctg tctgaccatc cctctcaatc ttccctgccc A aggactggcc atactgccac cgacacgtg cacacagcc aacaggcatc tgccatgctg gcatctctat aagggtctca gtcagagac cctgggccc tgaacttgc cctcagggcag aggctgagtc cgacatcac ctcaggccc tcagaaacac tggcccagcc ccaccatgct catggcgtcc accacttccg ctgtgctgg gcatccctct ctgcccagcc tggcccagcaa cagcagccag gagaggccac tggacacccc ggacccgctg ctagcccggg cggagctggc gctgctctcc atagtctttg tggctgtggc cctgagcaat ggcctgtgctc tggcgccct agctcgccgg ggccggcggg gccactgggc accatacac gctctcattg gccacttgtg cctggccgac ctggccgtgg ctctgttcca agtgcctgcc cagctggcct ggaaggccac cgaccgcttc cgtgggccag atgcccgtg tcgggcccgtg aagtatctgc agatgtggg catgtatgcc tctcctaca tgatcctggc catgacgtg gaccgccacc gtgccatctg ccgtcccatg ctggcgtaac gccatggaag tggggctcac tggaaaccggc cgtgtctagt ggcttgggcc ttctcgctcc ttctcagcct gcccagctc ttcatcttcg cccagcgcaa cgtggaaagt ggacagcggg tcaactgactg ctgggcccgc tttgcggagc cctggggccc tcgcacctat gtcacctga ttgcccgtg ggtgttcgtg gcacctacc tgggtatcgc cgcccgccag gtgctcatct tccggggagat tcatgcccag cgtgtgccag ggcctcaga gagccctggg ggccgcccga ggggagcccg acatggcagc cccggtgagg gaggccacgt gtcagcagct gtggccaaga ctgtgaggat gacgctagt attgtggctg tctatgtgt gtgctgggca cctctctcc tgggtcagct gtgggcccgc tgggaccgg aggcacctct</p>	Homo sapiens

Accession	Gene	Protein	Species
338	Vasopressin V2 Receptor	5119	Homo sapiens
339	Peropsin	5133	Homo sapiens

340	5133	Peropsin	NP_006574.1	ccctattatg gcatgcatta cactgtactg atgacacctta acttgccctgg ctcc	Homo sapiens
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341	5519	Brain-Specific Angiogenesis Inhibitor 1	NM_001702	ggacttttaga agccgttgct gcectctctg tcacctgaag cggggccctc tcccatccca A	Homo sapiens
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344 5520 Brain- NP_001694.1 Homo sapiens
 Specific
 Angiogenesis
 Inhibitor 2

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Homo
sapiens

P

NP_001695.1

Brain-
Specific
Angiogenesis
Inhibitor 3

5521

346

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347

6031

SIV/HIV
Receptor
BONZO

NM_006564

Homo
sapiens

A

349	6031	SIV/HIV Receptor BONZO	NP_006555.1	<p>aatctcgaca agtctaatatg tggttaccat gacgaggcaa tttccactgt ggttcttgcc accagatga cactgggggtt cttcttgcca ctgctcacca tgattgtctg ctattcagtc ataatcaaaa cactgcttca tgctggaggc ttccagaagc acagatctct aagatcatc ttctgggtga tggctgtgtt cctgctgacc cagatgccct tcaacctcat gaagtctatc cgcagcacac actgggaata ctatgccatg accagctttc actacacct catggtgaca gaggccatcg catacctgag ggcctgcctt aacctgtgc tctatgcctt tgcagcctg aagtttcgaa agaacttctg gaaacttgtg aaggacattg gttgcctccc ttaccttggg gtctcacatc aatgaaatc ttctgaggac aattccaaga cttttctgc ctcccacaat gtggaggcca ccagcatgtt ccagttatag gccttgccag ggttcgaga agctgctctg gaatttgcaa gtcatggctg tgccctcttg atgtggtgag gcaggctttg ttatatagctt gcgcattctc atggagaagt tatcagacac tctggctggt ttggaatgct tcttctcagg catgaacatg tactgttctc ttcttgaaca ctcatgctga aagcccaagt agggggtcta aaatttttaa ggaatttctt tcttccatct ccaagaatgc tgaaccaca ggggatgaca tgtgactcct atgatctcag gttctccttg attgggactg ggcctgaagg ttgaagaggt gagcacggcc acaaaagctg ttgatgttag gtggcacact ggggtcccaa gctcagaagg ctctctgac tactgggcaa agagtgtaga tcagagcagc agtgaacaaca agtgcctggca ccaccaggca cctcacagaa atgagatcag gctctgcctc acctggggc ttgacttttg tataggtaga tghtcagatt gctttgatta atccagaata actagcacca gggactatga atgggcaaaa ctgaattata agaggctgat aattccagt gtccatggaa tgcttgaaaa atgtgcaaaa cagcgtttta gactgtaatg aatcaaagca gcatctctga agtggactct ttggtggctt tgcattttta aatgaaatg ttccaatgtc tgccacacaa acgtatgtaa atgtatatat ccacacacat acacacatat gtcatatat actagcatat gagtttcata gctaagaaat aaaactgta agtctccaa act</p>	Homo sapiens
349	6204	Lysophosphat idic Acid Receptor Edg4	NM_004720	<p>KLQSLTDVFL VNLPLADLVE VCTLFWAYA GIHEWVFGQV MCKSLGLIYT INFYTSMLIL TCITVDRFIV VVKATKAYNQ QAKRMTWGV FLPLITMIVC YSVIIKTLH AGGFQKHRSI KIIFLVMAVF GYHDEAISTV VLATQMTLGF FLPLITMIVC YSVIIKTLH AGGFQKHRSI KIIFLVMAVF LLTQMPFNLM KFIKSTHWEY YAMTSFHYTI MVTETAIYLR ACINPVLVAF VSLKFRKNFW KLVKDIGCLP YLGVSHQWKS SEDNSKTFSA SHNVEATSMF QL</p>	Homo sapiens

350	6204	Lysophosphat idic Acid Receptor Edg4	NP_004711.2	351	6213	C-C Chemokine Receptor 5	NM_000579	<p>ctggtcaaga ctgtgtgcat catcctgggg gcgttcgtgg tctgtggag accaggccag gtggtactgc tctgggatg ttaggctgt gactcctgca atgtcctggc ttagaaaaa tacttctac tgttggccga ggccaactca ctggtcaatg ctgctgtgta ctcttgcga gatgctgaga tgcgcgcac ctccgcgcg ctctctgct gcgctgctt ccgccaagtc accgcgagt ctgtccacta tacatctctt gccacgggag gtgcagcagc tgcacatcag cttcccgaga acgcccaccc actgatggac tccacccttt agctaccttg aacttcagcg gtacgcggca agcaacaat ccacagcccc tgatgacttg tgggtgctcc tggctcaacc caaccaacag gactgactg</p> <p>RVINGQCYNN ETIGFFYNNS GKELSSHWRP KDVVVVALGL TVSVLVLLTN LLVIAAIASN P Homo RRFHQPIYYL LIGNLAAADLF AGVAYLFMF HTGPRTRLRS LEGWFLRQGL LDTSLTASVA sapiens TLLAIAVERH RSVMAVQLHS RLPRGRVVM L IVGWWVAALG LGLIPAHSWH CLCALDRCSR MAPLLRSYL AVWALSILLV FLLMVAVYTR IFFYVRRRVQ RMAEHVSHRP RYRETTLSLV KTVVILGAF VVCWTPGQVV LLLDGLGCS C NVLAVERKYP LLLAEANSLV NAAVYSCRDA EMRRTFRRLL CCACLRQSTR ESHVYTSSAQ GGASTRIMLP ENGHPILMDST L</p> <p>cttcagatag attatatctg gactgaagga tcttgccacc tacgtatctg gcatagtatt A ctgtgatgtg ggatgagcag agaacaataa caaataaatac cagtgaagaa agcccgtaaa taaaccttca gaccagagat ctattctcca gcttatttta agctcaactt aaaaagaaga actgttctct gattcttttc gcttcaata cacttaataga tttaactcca cctctctca aaagaaacag catttctac ttttatactg tctatatgat tgatttgcac agctcatctg gccagaagag ctgagacatc cgttccctca caagaaatct tcccgggtg gaacaagatg gattatcaag tgcgaagtcc aatctatgac atcaaatatt atacatcggg gccctgcaa aaaatcaatg tgaagcaaat cgcagccgc ctctgcctc cgtctactc actggtgttc atctttggtt ttgtgggcaa catgctgtc atctcatcc tgataaactg caaaaggctg aagagcatga ctgacatcta cctgctcaac ctggccatct ctgacctgtt ttccctctt actgtccctt tctgggtcct caatgctgac gccagtggtg actttggaaa tacaatgtgt caactcttga cagggtctca ttttataggc ttcttctctg gaactcttct catcatctc ctgacaaatcg ataggtacct ggctgtctg catgctgtgt ttgctttaaa agccaggacg gtcacctttg ggtgtgtgac aagtgtgac acttgggtg gcgtgtgtt tgcgtctctc ccaggaaatca tctttaccag atctcaaaa gaaggtcttc attacacctg cagctctcat ttcccataca gtcagtatca attctggaag aatttccaga cattaaagat agtcatcttg gggtgtgtcc tgcctgtgt tgtcatggt atctgctact cgggaatcct aaaaactctg cttcggtgtc gaaatgagaa gaagagggc agggctgtga ggcttatctt caccatcatg attgtttatt ttctctctg ggctccctac aacattgtcc ttctctgaa cacttccag gaattctttg gcctgaataa ttgcagtagc tctaacaggt tggaccaagc tatgcaggtg acagagactc ttgggatgac gcaactgtc cttagtctc ttccaaaagc acattgccaa acgcttctg gagaagtcca gaaactacct cttagtctc ttccaaaagc acattgccaa acgcttctg aaatgtgtt ctattttcca gaaagggct cccgagcag caagctcagt ttacaccga tccactgggg agcaggaaat atctgtgggc ttgtgacag gactcaagt ggctgtgac ccagtcagag ttgtgcacat ggcttagttt tcatacacag cctgggctgg gggtgggtg ggagaggtct tttttaaaag gaagttactg ttatagagg tctaagattc atccattat ttggcatctg tttaagtag attagatctt ttaagcccat caattataga aagcccaatc</p>
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352	6213	C-C Chemokine Receptor 5	NP_000570.1	<p> aaaaatatgtt gatgaaaaaat agcaaaccttt ttatctcccc ttcatatgca tcaagttatt gacaaactct ccttcactc cgaaggttcc ttatgtatat ttaaaagaaa gcctcagaga attgctgatt cttagattta gtgactctgaa cagaaatacc aaaattattt cagaaaatgta caacttttta cctagtacaa ggcaacatat aggttgtaaa tgtgtttaa acaggtcttt gtcttgctat gggagaaaaa gacatgaata gtttagtga agaatgaca ctttctatgt gtgatttccc ctcaaggta tggttataa gtttactga cttagaacca ggcgagagac ttgtggcctg ggagagctgg ggaagcttct taaatgagaa ggaatttgag ttggatcatc tattgctggc aaagacagaa gcctcactgc aagcactgca tgggcaagct tggctgtaga aggagacaga gctggttggg aagacatggg gaggaaggac aaggtctagat catgaagaac cttgacggca ttgctccgtc taagtcatga gctgacagg gagatcctgg ttggtgttgc agaaggttta ctctgtggcc aaaggagggt caggaaggat ggcatttag ggaaggaga ccaccaacag cctcaggctc aggtgagga tggcctctgc taagctcaag gcgtgaggat gggaaggagg gaggtattcg taaggatggg aaggaggag gtattcgtgc agcatatgag gatgcagagt cagcagaact ggggtggatt tggtttgaa gtgaggttca gagaggagtc agagagaatc cctagtcttc aagcagattg gaaaaacct tgaagaaga tcaagcacag aaggaggagg aggaggttta ggtcaagaag aagatggatt ggtgtaaaa gatgggtctg gtttgcagag ctgaaacaca gtctcaccca gactccagg tgtctttcac tgaatgcttc tgacttcata gattccttc ccattccagc tgaatactg aggggtctcc aggaggagac tagattttatg aatacacgag gtatgaggtc taggaacata cttcagctca cacatgagat ctaggtgagg attgattacc tagtagtcat ttcatgggtt gttggaggga ttctatgagg caaccacagg cagcatttag cacatactac acattcaata agcatcaaac tcttagttac tcattcagggt atagcactga gcaaagcatt gagcaaaagg tcccatata ggtgagggaa gcctgaaaaa ctaagatgct gctgcccag tgcacaaag gttaggtatc attttctgca tttaaccgtc aataggcaaa ggggggaagg gacatatcca ttggaaata agctgccttg agccttaaaa cccacaaaag tacaatttac cagctccgt atttcagact gaatgggggt ggggggggcg ccttaggtac ttattccaga tgccttctcc agacaaacca gaagcaacag aaaaaatcgt ctctccctcc ctttgaaatg aatatacccc ttagtgtttg ggtatatcca tttcaaaagg agagagagag gtttttttct gttctttctc atatgattgt gcacatactt gagactgttt tgaatttggg gtagggctaa aaccatcata gtacaggtaa ggtgagggaa tagtaagtgg tgagaactac tcagggaatg aaggtgtcag aataaaga ggtgctactg actttctcag cctctgaata tgaacggtga gcatgtggc tgtcagcagg aagcaacgaa gggaaatgct tttctttttg ctcttaagtt gtggagagtg caacagtagc ataggacctt accctctggg ccaagtcaaa gacattctga catcttagta ttgcatatt cttatgtatg tgaaggttac aaattgcttg aaagaaaaa tgcacttaat aaaaaacacc ttcta MDYQVSSPIY DINYTSEPC QKINVKQIAA RLLPPLYSLV FIFGVGNML VILLINCKR P Homo sapiens LKSMTDIYLL NLAISDLFFL LTVPFWAHYA AAQWDFGNM CQLLTGLYFI GFFSGIFFII LLTIDRYLAV VHAFVFKAR TVTFGVVTSV ITWVAVFAS LPGLIFTRSQ KEGLHYTCSS HFPYSQYQFW KNFOTLKIVI LGLVLPLLVM VICYSGLIKT LLRCNEKKR HRAVRLIFTI MIVYFLFWAP YNIVLLNLTQ QEFFGLNCS SSNRLDQAMQ VTETLGMTHC CINPIIYAFV GEKFRNYLLV FFQKHIKRF CKCCSIFQOE APERASSVYT RSTGEQEISV GL </p>
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353	6363	Chemokine (C-C motif) Receptor- like 2 (CCR12)	NM_003965	<p>tctgtctctg ggggaagtggg cacacgttaa aagaaatgtt tatttcagtc ttctgaataa A</p> <p>gggaattact ctggctaaaa ttagctctca gaaagggaaa gtggggctgt atgaatccag sapiens</p> <p>gtccagtttg ttgtttcttc caggataagg tagctgtcgg aggggaaaa catctcccat</p> <p>ttctccacag ggcagctga agatggcaca tgacacgtg gccacagag atgaatatga</p> <p>tgctctcata gaagtgaaac tggagagcga tgaggcagag caatgtgaca agtatgacgc</p> <p>ccaggcactc tcagccacgc tgggtgccat actctgctct gctgtgtttg tgatcgggtg</p> <p>cctggacaat ctctgtgttg tgcttatctt ggtaaaatat aaaggactca aacgcgtgga</p> <p>aaatatctat ctctaaact tggcagtttc taacttgtt tcttgctta cctgcccc</p> <p>ctgggtctat gctggggggc atcccatgtg taaaattctc attggactgt acttcgtggg</p> <p>cctgtacagt gagacatttt tcaattgctt tctgactgtg caaaggtaacc tagtgttttt</p> <p>gcacaaaggc aactttttct cagccaggag gaggtgtccc tgtggcatca ttacaaagtgt</p> <p>cctggcatgg gtaacagcca ttctggccac ttgctctgaa tactgtgttt ataaacctca</p> <p>gatggaagac cagaaataca agtgtgcatt tagcagaatt ccttctctgc cagctgatga</p> <p>gacattctgg aagcattttc tgactttaaa atgaacatt tcggttcttg tcttccccct</p> <p>atttattttt acatttctct atgtgcaaat gagaaaaaca ctaagggttca gggagcagag</p> <p>gtatagcctt ttcaagcttg ttttggcat aatggtagtc ttcttctga tgtggggcgc</p> <p>ctacaaattt gcatttttcc tgtccacttt caaagaacac ttctccctga gtgactgcaa</p> <p>gagcagctac aatctggaca aaagtgttca catcactaaa ctcatcgcca ccaccactg</p> <p>ctgcatcaac cctctcctgt atgcgtttct tgatgggaca tttagcaaat acctctgccg</p> <p>ctgtttccat ctgcgtagta acaccacct atccaccga agtgtaaact agcatccacc</p> <p>atcgaggga gaaactgacc atccaccga agtgtaaact agcatccacc aaatgcaaga</p> <p>agaataaaca tggattttca tctttctgca ttattttctt taaattttct acacatttgt</p> <p>atacaaaatc ggatacagga agaaaaggga gaggtgagct aacatttgtct aagcactgaa</p> <p>tttgtctcag gcaccgtgca aggtctctta caaacgtgag ctctctgcc tcctaccact</p> <p>tgctccatag ttggatagga ctagtctcat ttctctgaga agaaaaactaa ggcgcggaaa</p> <p>tttgtctaag atcacataac taggaagtgg cagaactgat tctccagccc tggtagcatt</p> <p>tgctcagagc ctacgcttgg tccagaacat caaactcaa acctggggga caaacgacat</p> <p>gaaataaatg tatttataaa catct</p>	Homo sapiens
354	6363	Chemokine (C-C motif) Receptor- like 2 (CCR12)	NP_003956.1	<p>LILVKYKGLK RVENIYLLNL AVSNLCFLT LPFWAHAGGD PMCKILIGLY FVGLYSETFF</p> <p>NCLLTQVRYL VFLHKGNNFS ARRRVPCGII TSVLAWVTAI LATLPEYVYVY KPQMEDQKYK</p> <p>CAFSRTPFLP ADETFWKHFL TLKMNISVLV LPLFIFTFLY VQMRKTLRFR EQRYSLFKLV</p> <p>FAIMVFLFM WAPYNIAFFL STFKHFSLS DCKSSYNLDK SVHITKLIAT THCCINPLLY</p> <p>AFLDGTFSKY LCRCFHLRSN TPLQPRQSA QGTSREEPDH STEV</p>	Homo sapiens
355	6446	Pael Receptor (GPR37)	NM_005302	<p>atgcgagccc cgggcgcgt tctcgccgc atgtcgccgc tactgtctct gctactgctc A</p> <p>aaggtgtctg cctcttctgc cctcggggtc gccctgcgt ccagaaaacga aacttgtctg sapiens</p> <p>ggggagagct gtgcacctac agtgatccag gcgcgggca gggacgcctg gggaccggga</p> <p>aattctgcaa gagacttct cggagcccca gacccacga gggagcaggg ggcagcggtt</p> <p>cttgccggac cctcctggga cctgcccggc gcccccggcc gtgacccggc tgcagggcaga</p> <p>ggggcgggag cgtcggcagc cggacccccg ggacctccaa ccaggccacc tggccccctgg</p> <p>aggtggaaaag gtgctcgggg tcaggagcct tctgaaactt tggggagagg gaacccccacg</p>	Homo sapiens

356	6446	Pael Receptor (GPR37)	NP_005293.1	gcccaccagc tcttccttca gatctcagag gaggaagaga aggggtccag aggcgtggc atttcgggc gtagccagga gcagagtgtg aagacagtcc ccggagccag cgatctttt tactggccaa ggagagccgg gaaactccag ggttcccacc acaagccctt gtccaaagacg gccaatggac tggcggggca cgaagggtgg acaattgcac tcccggccg ggcgtggcc cagaatggat ccttgggtga aggaatccat ggcctggggg gtcccggccg gggaacacagc acgaaccggc gtgtgagact gaagaacccc ttctaccccg tgaccaggga gtccatagg gcctacggcg tcatgtgtct gtcgtgggtg atcttcggga ccggcatcat tggcaacctg gcggtgatgt gcactgtgtg ccacaactac tacatgcgga gcattccaa ctccctctg gccaacctgg ccttctggga ctttctcacc atcttcttct gcttccgctt ggtcatcttc cacgagctga ccaagaagtg gctgctggag gacttctcct gcaagatcgt gccctatata gaggtcgctt ccttgggagt caccaccttc accttatgtg ctctgtgcat agaccgcttc cgtgctgcca ccaactgaca gatgtactac gaaatgatcg aactgttctt ctcaacaact gccaaacttg ctgttatatg ggtggagctt ctattgttag cactccaga agttgttctt gcgagctga gcaaggagga ttgggggttt agtggccgag ctccggcaga aagtgcat attaagatct cctctgattt accagacacc atctatgttc tagccctcac ctacgacagt gcgagactgt ggtgtattt tggctgttac tttgtttgc ccacgtttt caccatcacc tgctctctag tgactgcgag gaaaatcgc aagcagaga aagctgtgac ccgagggaat aaacggcaga ttcaactaga gagtcagatg aactgtacag tagtggcact gaccatttta tatggatttt gcattattcc tgaataatc tgcaacattg ttactgcta catggctaca ggggtttcac agcagacaat ggacctctt aatatactca gccagtctt tttgtcttt aagtcctgtg tcacctcagt cctcctttt tgtctctgca aaccttcag tcgggacctt atggagtgtg gctgctgttg ctgtgaggaa tgcattcaga agtcttcaac ggtgaccagt gatgacaatg acaacgagta caccacggaa ctgaaactct cgccttcag taccatacgc cgtgaaatgt ccacttttgc ttctgtcgga actcattgct ga NSARDVLRAR APREEQGA F LAGPSWDLPA AGRDPAAGR GAESAAGPP GPTRPPGPW RWKGARGQEP SETLGRNPT ALQLFLQISE EEEKGPRGAG ISGRSQEQSV KTVPGASDLF YMPRRAGKLO GSHKPLSKT ANGLAGHEGW TIALPGRALA QNGSLGEGIH EPGGPRRGNS TNRRRLKNP FYPLTQESYG AYAVMCLSVV IFGTGIIGNL AVMCIVCHNY YMRISNSLL ANLAFWDFLI IFCLPLVIF HELTKKWLLE DFCKIVPYI EVASLGVTTF TLALCIDRF RAATNVQMYI EMIECSSTT AKLAVIWVGA LLALPEVL RLSKEDLGF SGRAPAERCI IKISPDLPDT IYVLTALYDS ARLWYFGY FCLPTLFTIT CSLVTARKIR KAEKACTRGN KRQIQLESQM NCTVVALTIL YGFCIIPENI CNIVTAYMAT GVSQQTMDLL NIISQFLFF KSCVTPVLLF CLCKPFSRAF MECCCCCCEE CIQKSTVTS DDNDNEYTTE LELSPFSTIR REMSTFASVG THC	Homo sapiens
357	6536	Putative Neurotransmi tter Receptor (PNR)	NM_003967	atgagagctg tcttcatcca aggtgctgaa gagcacccctg cggcattctg ctaccagggtg A aatgggtctt gccccaggac agtacatact ctgggcatcc agttggtcat ctacctgacc tgtgcagcag gcatgctgat tatcgtgcta gggaatgtat ttctggcatt tctgtgtcc tacttcaaa gctgtcacac gccaccacac ttctctgtgc tctccctggc cctggctgac atgtttctgg gctgtgtgtg gctgccccctc agcacattc gctcagtggg gagctgctgg ttcttcgggg acttctctctg ccgctgctgac acctacctgg acacctctt ctgcctcacc	Homo sapiens

358	6536	Putative Neurotransmitter Receptor (PNR)	NP_003958.1	<p> tccatcttcc atctctgttt catttccatt gaccgccact gtgccatctg tgacccccctg ctctatccct ccaagttcac agtgagggtg gctctcaggt acatctctggc aggatggggg gtgcccgcag catacacttc gttattcttc tacacagatg ttgtagagac aaggctcagc cagtggctgg aagagatgcc ttgtgtgggc agtgccagc ttgtgtctca taaatttgg ggctgggttaa acttcccttt gttctttgtc cctggctca ttatgatcag cttgtatgtg aagatctttg tgggtgctac cagacagct cagcagatta ccacattgag caaaagcctg gctggggctg ccaagcatga gagaaaagct gccaaagccc tgggcatgtg tgtgggcata tacctctgtg gctggctgcc cttcaccata gacacagatg tegacagcct ccttcacttt atcacacccc cactgggtct ttgacatctt atctgggttg cttacttcaa ctcagcctgc aaccocatca tctatgtctt ttctaccag tggtttcgga aggcactgaa actcacactg agccagaagg tcttctcacc gcagacagc actgttgatt tgtaccaaga atga YFKALHTPTN FLLSLALAD MFLGLLVLP STIRSVESCW FFGDFLCRLH TYLDTLFLCT SIFHLCFISI DRHCAICDPL LYPKFTVRV ALRYILAGWG VPAAYTSLFL YTDVVEITRLS QWLEEMPCVG SCQLLNKFW GWLNFPLFEV PCLIMISLYV KIFVVATRQA QQITTLKSLS AGAAKHERKA AKTLGIWVGI YLLCWLPFTI DTMVDSLHFE ITPPLVFDIF IWFAYFNSAC NP11YVFSYQ WFRKALKLTL SQKVFSPQTR TVDLYQE </p>	Homo sapiens
359	6777	G Protein- Coupled Receptor TM7SF1	NM_003272	<p> cggcgcatg cgcggagacc cccgcggggg cggcggggc cgtgagcccc gatgagggcc A gagcgtcccc ggcgcgcgg cagcgcccc gcccagatgg agaccccgcc gtgggaccca gcccgaacg actcgtgcc gcccaagctg acccggcgc cgtgaaagctt ggcctcaccg tgcgtacac cgtgttctac cgcgtgctct cgtgttcat ctacgtgcag ctctggctgg tgcgcgta cgcgcacaag cggctcagct accagagcgt ctctctctt ctctgctct tctggcctc cctgcgacc gctctctct cctctactt caaagacttc gtggcgcca attcgtcag cccctcgtc ttctggctg tctactgctt cctgtgtgc ctgcagttt tcacctcac gctgatgaac ttgtacttca cgcaggtgat ttcaaaagcc aagtcaaaat attctccaga attactcaaa taccggttgc cctctacct ggctccctc ttcatcagcc ttgtttctt gttggtgaat ttaacctgtg ctgtgctggt aaagacggga aattgggaga ggaaggttat cgtctctgtg cagatggcca ttaatgacac gctctctgtg ctgtgtgcg tctctctc catctctc tacaaaatct ctaagatgtc cttagccaac attacttgg agtccaaagg cctctcgtg tgtcaagtga ctgccatcgg tgcaccgtg atactgctt acacctctg ggctgtctac aacctgttca tctgtcatt ttctcagaac aagagcgtcc attccttga ttatgactgg tacaatgtat cagaccaggc agatttgaag aatcagctgg gagatgctg atactatta ttggagtggt tgttattgt ttgggaactc ttacctacca ccttagtgt ttattcttc cgaagttagaa atctacaaa ggaccttacc aaccctggaa tggccccag ccatgattc agtccccagat cttatttctt tgacaacctt cgaagatatg acagtatga tgacctgcc tggaaacattg cccctcaggc acttcaggga ggtttctgc cagattacta tgattggga caacaaacta acagcttctt ggcaacaaga ggaaacttgc aagactcaac ttggatcct gacaaaccaa gccttgggta gcatcagtta acagttttat ggacgattcc tcagatgaaa agcttcagaa aagcatagt acagctgaat ttttagggca ctttctcta agaaatagaa attgattttt attgtttaca ggtttccaat ggcccatag gaataagcaa taatgtagac tgataaaccc ttattttagt actaaagagg </p>	Homo sapiens

360	6777	G Protein- Coupled Receptor TM7SF1	NP_003263.1	MRPERPRRG SAPGPMETPP YVQLWLVLRY RHKRLSYQSV PVCLQFFTLT LMNLYFTQVI FKAKSKYSPE LKYLRLPLYL ASFLISLVFL LVNLTCAVLV KTGNERKVI VSVRVAINDT LFVLCVAVSL ICLYKISKMS LANIYLESKG SSVQCQTAIG VTVILLYTSR ACYNLFILSF SQNKSVHSFD YDWNVNSDQA DLKNQLGDAG YVLFQVVLV FVLLPTTLV YFFRVRNPTK DLTNPGMVPS HGFSRPSYFF DNPRRYDSD DDLAWNIAPOG LQGGFAPDYY DWGQOTNSFL AQAGTLQDST LDPDKPSLG	gagccttgct atttcagtggt gtataaattta aacttttttaa agaaaatctgt tacttttata aagatgtatt ttgtataaact taaataataa tgctaaagta tactagggtt tttttttctt gagaatgta ctgcaatcat gttgtagttt gcacagactt ttatgcataa ttacttttaa aaatatagaa tatatgttct aatagttttt taaagctttt ggactaaagt attccacaaa tcttacctct ttaggtcact gatggtcact cagattctga ttgccacatt gtagactcc taaaatacag ttgacaactt agccaattgc aactccagtg ttgataaatta aatgaaaatg gtaagcagc agactgtaag gtcttttagag attttttttt aaggttcagg ccgtagggtc ctcaaggaaat ctttaagtt ttgcccagaag actggtactt ctttcagta ggcggtaat gtataacat taatgataag ttgataacat taaaatgta gctgacttat cctattaaac ctcctctgct atgttcac	Homo sapiens
361	6853	Puriner- gic Receptor P2Y11	NM_002566	atggatcag gtgccaagtc ctgcccctgc aactcttgg cagctgcccga cgacaaactc A agtgggttcc aggggactt cctgtggccc atactgttggt ttgagttcct ggtggccgtg gccagcaatg gctgtggccc gtaccgcttc agcatccgga agcagcgcctc atggcacccc gctgtggtct tctgtgtcca gctggcagtc agcagctgc tctgctctct gacgtgccc cgtgtggccg cctacctcta tcccccaag cactggcgt atggggaggc cgtgtgccc ctggagcgt tctcttccac ctgcaacctg ctggcagcg tcatcttcat cactgctac agcctcaacc gctacctggg catcgtgcac ccttctctcg cccgaagcca cctgagccc aagcacgctt gggccgtgag cgtgcccggc tgggtcctgg cgcctctgct ggccatgccc acactcagct tctccacct gaagaggccg cagcaggggg cgggcaactg cagcgtggcc aggcccgagg cctgcatcaa gtgtctgggg acagcagacc acgggctggc ggcctacaga gcgtatagcc tgggtgctggc ggggttggc tgcggcctgc cgtgctgct cagcctggca gcctacggcg cctcggggc ggccgtgcta cgcagcccag gcatgactgt ggcagagaag ctgctgtggt cagcgttgggt ggcagtggtt gtcgcccctc acgcaagctc ctatgtgccc taccacatca tgcgggtgct caactggat gctcggcggc gctggagcac ccgtgccc agctttgcag acatagccca gcccacagca gccctggagc tggggcccta cgtgggctac caggtgatgc ggggcctcat gcccctggc tctgtgtcc acctctact ctacatggcc gcagtgcga gctgggctg ctgctgccc cactgccc gctacagga cagctgggac ccagaggacg ccaagagcac tggccaagcc ctgcccctca atgcccagc cgcccctaaa ccgtcagagc cccagtcctc tgagctgagc caatga	atggatcag gtgccaagtc ctgcccctgc aactcttgg cagctgcccga cgacaaactc A agtgggttcc aggggactt cctgtggccc atactgttggt ttgagttcct ggtggccgtg gccagcaatg gctgtggccc gtaccgcttc agcatccgga agcagcgcctc atggcacccc gctgtggtct tctgtgtcca gctggcagtc agcagctgc tctgctctct gacgtgccc cgtgtggccg cctacctcta tcccccaag cactggcgt atggggaggc cgtgtgccc ctggagcgt tctcttccac ctgcaacctg ctggcagcg tcatcttcat cactgctac agcctcaacc gctacctggg catcgtgcac ccttctctcg cccgaagcca cctgagccc aagcacgctt gggccgtgag cgtgcccggc tgggtcctgg cgcctctgct ggccatgccc acactcagct tctccacct gaagaggccg cagcaggggg cgggcaactg cagcgtggcc aggcccgagg cctgcatcaa gtgtctgggg acagcagacc acgggctggc ggcctacaga gcgtatagcc tgggtgctggc ggggttggc tgcggcctgc cgtgctgct cagcctggca gcctacggcg cctcggggc ggccgtgcta cgcagcccag gcatgactgt ggcagagaag ctgctgtggt cagcgttgggt ggcagtggtt gtcgcccctc acgcaagctc ctatgtgccc taccacatca tgcgggtgct caactggat gctcggcggc gctggagcac ccgtgccc agctttgcag acatagccca gcccacagca gccctggagc tggggcccta cgtgggctac caggtgatgc ggggcctcat gcccctggc tctgtgtcc acctctact ctacatggcc gcagtgcga gctgggctg ctgctgccc cactgccc gctacagga cagctgggac ccagaggacg ccaagagcac tggccaagcc ctgcccctca atgcccagc cgcccctaaa ccgtcagagc cccagtcctc tgagctgagc caatga	Homo sapiens
362	6853	Puriner- gic Receptor P2Y11	NP_002557.1	MDRGAKSCPA NFLAAADDKL SGFQGDFLWP ILVVEFLVAV ASNLALYRF SIRQRPWHP P AVFVSQVLAV SDLLCALTLPLAALYPPK HWRYGEAACR LERFLFTCNL LGSVIFTICI SLNRYLGIVH PFFARSHLRP KHAWAVSAAG WVLAAALLAMP TISFSLKRP QQGAGNCSVA RPEACIKCLG TADHGLAAYR AYSIVLAGLG CGLPLILLTLA AYGALGRAVL RSPGMTVAEK LRVAALVASG VALYASSYVP YHIMRVLNVD ARRWSTRCR SFADIAQATA ALELGPYVGY	MDRGAKSCPA NFLAAADDKL SGFQGDFLWP ILVVEFLVAV ASNLALYRF SIRQRPWHP P AVFVSQVLAV SDLLCALTLPLAALYPPK HWRYGEAACR LERFLFTCNL LGSVIFTICI SLNRYLGIVH PFFARSHLRP KHAWAVSAAG WVLAAALLAMP TISFSLKRP QQGAGNCSVA RPEACIKCLG TADHGLAAYR AYSIVLAGLG CGLPLILLTLA AYGALGRAVL RSPGMTVAEK LRVAALVASG VALYASSYVP YHIMRVLNVD ARRWSTRCR SFADIAQATA ALELGPYVGY	Homo sapiens

363	6921	G Protein-Coupled Receptor GPR39	NM_001508	QVMRGLMPLA FCVHPLLMA AVPSLGCCCR HCPGYRDSWN PEDAKSTGQA LPLNATAAPK PSEPSRELS Q	Homo sapiens
364	6921	G Protein-Coupled Receptor GPR39	NP_001499.1	atggcttcac ccagcctccc gggcagtgac tgctccaaa tcattgatca cagtcattgc A cccagatttg aggtggccac ctggatcaaa atcaccttta ttctgggtga cctgatcatc ttcgtgatgg cccttctggg gaacagcgcc accattctga ttcccagggt gctgcagaag aaaggatact tgcagaagga ggtgacagac cactatggtga ttttggtctg ctcgacatc ttggtgttcc teatcgcat gcccatggag ttctacagca tcattctgaa tcccctgacc acgtccagct acacccctgc ctgcaagctg cacacttcc tcttcagggc ctgcagctac gctacgctgc tgcagctgct gacactcagc tttagcgct acatcgccat ctgtcacccc ttcagggtaca aggtgtgtgc gggaccttgc caggtgaagc tgcgtattgg cttegtctgg gtcacctcgg ccctgtgtgc actgcccctg ctgtttgcca tgggtactga gtacccccctg gtgaacgtgc ccagccaccg ggtctcact tgaacccgt ccagcacccg ccaccacgag cagcccagaga cctccaatat gtccatctgt accaacctct ccagccgctg gaccgtgttc cagtcacaga tcttcggcgc ctctgtgtgc taccctgtgg tccctgtctc cgtagccttc atgtgctgga acatgatgca ggtgctcatg aaaagccaga agggctcgtc ggcggggggc acgcgccctc cgcagctgag gaagtcgag agcgaagaga gcaggaccgc caggaggcag accatcatct tctgaggtct gattgtgtg acattggccg tatgtggat gcccaaccag attcggagga tcatggctgc ggcacaccc aagcacgact ggcagaggtc ctacttcgg gcgtacatga tctctctccc ctctcggag acgttttct acctcagctc ggtcatcaac ccgtcctgt acacggtgtc ctgcagcag ttctggcggg tttcgtgtga ggtcgtgtgc tgccgctgt cgtgcagca cgcacacac gagaagcgcc tgccgtgaca tgcgactcc accaccgaca gcgccgctt tgtgcagcg ccgtgtctct tgcgtcccc gcgccagctc tctgcaagga gaactgagaa gattttctta agcattttc agagcgagcg cgagccccag tctaaagccc agtcattgag tctcagtgca ctagagccca actcagggcg gaaaccagcc aattctgtg cagagaatgg ttttcaggag catgaagttt ga MASPSLPGSD CSQIIDSHV PEFVATWIK ITLILVYLII FVMGLLGNSA TIRVTQVLQK P KGYLQKEVTD HMVSLACSDI LVFLIGPME FYSIIWNPLT TSSYTLCKL HTFLFEACSY ATLLHVLTL FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFAMGTEYPL VNVPSHRGLT CNRSSTRHHE QPETSNSIC TNLSSRWTFV QSSIFGAFV YLVVLLSVAF MCWNMMQVLM KSQKSLAGG TRPPQLRKSE SEESRTARRQ TIFLRLIV TLAVCMWPNQ IRRIMAAAKP KHDWTRSYFR AYMLLPFSE TFFYLSSVIN PLYTVSSQQ FRRVFQVLC CRLSLQHANH EKRLRVHAHS TTDSARFVQR PLLFASRRQS SARTEKIFL STFQSEAEPO SKSQSLLES LEPNSGAKPA NSAAENGFOE HEV ggacaggtgc cccggagct tcccgtcgc gaagaccag acggctgac gaggccggc A agcctcgggg tcagcgccac catgaagctc tcgggtgccc caggggccc gaaacgcagc cagggcggg gcgggggag ctggcaccct cagcggtga tctgtcccc gctcttcgcg ctcatcttc cgtggggcac cgtggggcac acgttgaac cgtcgtgtgc tgcggtgtc ggccagggcg tcagcactac caactgttc atcttaacc tggcggtggc cgactgtgt ttcatcctgt gctcgtgccc ctccagccc accatctaca ccttgagcgg ctgggtgttc ggctcgtgc tgtgcaaggc ggtgcacttc ctcatcttc tcaccatgca cgccagcagc ttcacgctgg ccgccgtctc cctggacagg tatctggca tccgtaccc gctgcactcc	Homo sapiens
365	7221	Galanin Receptor GalR2	NM_003857	ggacaggtgc cccggagct tcccgtcgc gaagaccag acggctgac gaggccggc A agcctcgggg tcagcgccac catgaagctc tcgggtgccc caggggccc gaaacgcagc cagggcggg gcgggggag ctggcaccct cagcggtga tctgtcccc gctcttcgcg ctcatcttc cgtggggcac cgtggggcac acgttgaac cgtcgtgtgc tgcggtgtc ggccagggcg tcagcactac caactgttc atcttaacc tggcggtggc cgactgtgt ttcatcctgt gctcgtgccc ctccagccc accatctaca ccttgagcgg ctgggtgttc ggctcgtgc tgtgcaaggc ggtgcacttc ctcatcttc tcaccatgca cgccagcagc ttcacgctgg ccgccgtctc cctggacagg tatctggca tccgtaccc gctgcactcc	Homo sapiens

366	7221	Galanin Receptor GalR2	NP_003848.1	<p>cgagagctgc gacgcctcg aaacgcgctg gcagccatcg ggctcatctg ggggctgctg ctgtcttct cgggccccta cctgagctac taccgccagt cgcagctggc caacctgacc gtgtgccatc ccgcgtggag cgccctcgc gcgcgcgcca tggacatctg cactctgtc ttcagctacc tgttctctgt gctgttctc ggcctgacct acgcgcgcac ctbgcgtac ctctggcgcg ccgtcgaccc ggtggcgcg ggcctgggtg cccgcgcgcg caagcgcaag gtgacacgca tgatctctcat cgtggcgcg cttcttctg tctgtctgat gcccaccac gcgtcatcc tctgctgtg gttcgccag ttccgcctc cgcgcgcac ttatgcctt cgcctctct cgcacctgtt cctctacgc aactcctcg tcaaccccat cgtttacgcg ctggtctcca agcacttccg caaaggcttc cgcagatct cgcgcgcct gctgggcctg gccccaggc gagctcggg ccgtgtgtg cgtgcgcgc ggggcaccca cagtggcagc gtgttgagc gcgagtcag cgcctgttg cactgagcg aggcggcgg ggcctctctg ccctgcccc gcgcttcca gccatgcat ctcgagcct gtcctggccc gtcctggcag ggcccaagg caggcgacag catcctgac gttgatgtg cctgaaagca cttagcggc gcgctggat gtcacagat tggagtcatt gttgggggac cgtgggcg MNVSGCPGAG NASQAGGGG WHPEAVIVPL LFALIFLVGT VGNTLVLAIV LRGQAVSTT P ·NLFILNLGVA DLCFILCCVP FOATYITLDG WVFGLLCKA VHFLIFLTMH ASFTLAASV LDRLAIRYP LHSRELTPR NALAAIGLIW GLSLFSGPY LSYRQSLA NLTVCHPAWS APRRAMDIC TFVFSYLLPV LVLGLTYART LRYLWRAVDV VAAGSGARRA KRKVTRMLI VAALFCLCWM PHHALILCVW FGQFPLTRAT YALRILSHLV SYANSCWPI VYALVSKHFR KGFRTICAGL IGRAPGRASG RVCAARGTH SGSVLERESS DLLHMEAAAG ALRCPGASQ PCILEPCGP SWQPKAGDS ILTVDA</p>	Homo sapiens
367	7246	Orexin Receptor 1	NM_001525	<p>ctcccttca ggaagtttga gctgagacc cgaagaagacc tgggtgcaag cctccaggca A cctgaaagg agtggctga ggttgcccc aagctccctc ctctccctct gttagacctt ggatgcccc ctgtgctgag ggcctctgag ctcattggagc cctcagccac ccaggggcc cagatggggg tcccccttg cagcagagag ccgtcccttg tgcctccaga ctatgaagat gagttctcc gctatctgtg gcgtgattat ctgtacccaa aacagatga gtgggtcctc atgcagcct atgtgctgt gttcgtctg gccctgggtg gcaacacgt ggtcgtcctg gccgtgtggc ggaaccacca catgaggaca gtcaccaact acttcattgt caacctgtcc ctggctgacg ttctgttgac tgcctctgac ctgcccggcca gcctgctggt ggacatcact gagtcctggc tgttcggcca tgcctctgac aagctcctc cctatctaca ggctgtgtcc gtgtcagtgg cagtgttaac tctcagcttc atgccttg accgctggtg tgcctctg caccactat tgttcaagag cacagccccg cgggccccg gctccatcct gggcatctgg gctgtgtcgc tggccatcat ggtgccccag gctgcagtea tggaaatgcag cagtgtgctg cctgagctag ccaaccgcac acggtctctc tcagtctgtg atgaacgtg ggcagatgac ctctatccca agatctacca cagtgtcttc ttattgtca cctacctggc ccaactgggc ctcatggcca tggcctattt ccagatattc cgaagctct ggggcgcga gateccccgc accacctcag cactggtgcg gaactggaag cgccccctcag accagctggg ggacctggag cagggcctga gtggagagc ccagccccg ggcgcgcct tccctggctga agtgaagcag atgctgtcac ggaggaagac agccaagatg ctgtgctggt tctgtctgtc cttcgccctc tgctacctgc ccatacagct cctcaatgtc cttaaagagg tgttcgggat gttccgcca gccagtgacc gcgaagctgt ctacgcctgc ttacacctct ccactggct ggtgtacgcc</p>	Homo sapiens

368	7246	Orexin Receptor 1	NP_001516.1	MEPSATPGAQ MGVPDGSREP SPVPPDYDE FLRYLWRDYL YPKQYEWVLI AAYVAVFVVA P LVGNTLVCLA VVRNHMRTV TNYFIVNLSL ADVLVTALCL PASLLVDITE SWLFQHALCK VIPYLOAVSV SVAVLTLSFI ALDRWYAICH PLLFKSTARR ARGSLGIWA VSLAIMVPOA AVMECSVLP ELANRTRLES VCDERWADDL YPKIYHSCFF IVTYLAPLGL MAMAYFQIFR KLMGRQIPGT TSALVRNWK RPSDQLGDLEQ GLSGEPQPRG RAFLAEVKQM RARRKTAKML MVLLLVFALC YLPISVLNVL KRVFGMFRQA SDREAVYACF TFSHWLVYAN SAANPIIYNF LSGKFREQFK AAFSCCLPGL GPCGSLKAPS PRSSASHKSL SLQSRCSISK ISEHVVLTSV TTVLP	Homo sapiens
369	7247	Orexin Receptor 2	NM_001526	gggggggggg taattgagct tcagctgagc cggaagtagc tttctctccc tgggtgctatt A gctgcagcct ccagtgccgg gtccttagtt cctcagctgc ctatctccc ggtgcaacat cgctgtaaa gacagcaag ccaccgcaga agttgcccg cagaagaactc cggaggcatt ggctcagtaa cttttcacgt cttttctgc tcgggagccc cttctagcct ctccgcgcag cctttccac cgcaaatcac cagtgtctcat ggggcaggcg gagaggagct tgcagcattg agcggaaccg gacttgagcc cgtgatgtcc ggcacaaaat tggaggactc cccctctgt cgcaactggt catctgcttc ggagctgaat gaaactcaag agccctttt aaacccacc gactatgacg acgaggaatt cctgcggtac ctgtggaggg aatacttgca ccgaaaagaa tatgagtggg tccgtatcgc cgggtacatc atcgtgttcg tcgtggctct cattgggaac gtcctggttt gtgtggcagt gtggaagaac caccacatga ggacggtaac caactactc atagtcaatc tttctctggc tgatgtgctc gtgaccatca cctgcctcc agccacactg gtcgtggata tcaatgagac ctggtttttt ggacagtccc ttggcaagt gattccttat ctacagaccg tgtcgggtgc tgtgtctgc ctacacatga gctgtatcgc ctggatcgg tggatgcaa tctgtcacc tttgatgttt aagagcacag caaagcgggc ccgtaacagc attgtcatca tctgattgt ctcctgcatt ataattgatt ctcaggccat cgtcatggag tgacgaccg tgttccagg cttagccaat aaacccacc tctttacggg gtgtgatgag cgctggggtg gtgaaattta tcccaagatg taccacatct gtttctttt ggtgacatac atggcaccac tgtgtctcat ggtgttggtt tatctgcaa ttttggcaa actctggtg cgacagatcc ctggaacatc atctgtagt cagagaaaat ggaagccct gcagcctgtt tcacagcctc gagggccagg acagccaacg agtcccga tgagcctgtt ggcggctgaa ataaagcaga tccgagccag aaggaaaaca gccggatgt tgatggtgtt gcttttggt tttgcaattt gctatctacc aattagcatc ctcaatgtgc taaagagagt atttgggatg tttgccata ctgaagacag agagactgt tatgcctggt ttacctttt acactggctt gtatatgcca atagtgtgc gaatccaat attataatt ttctcagtgg aaaatttga gaggaattta aagctgcgtt ttctgtgtg tgcctggag ttccatcgc ccaggaggat cggctacca ggggacgaac tagcacagag agccgggaagt ccttgaccac tcaaatcagc	Homo sapiens

370	7247	Orexin Receptor 2	NP_001517.1	<p>aactttgata acatatcaaa actttctgag caagttgtgc tcaactagcat aagcacactc ccagcagcca atggagcagg accacttcaa aactggtaga atatttattc atatgacaag gatacctgag taaaactatc ctttttaaaa cagaaatttt attatcctat gatgtgaagc taaaattact tgtggatctt tttttttttt aatctattgc tctttggaaa taaaaaaaa gtcagtttaa aatgaaaaaa aaaaaaaa aaa</p> <p>MSGTKLEDSP PCRNWSSASE LNETQEPFLN PTDYDEEFL RYLWREYLHP KEYEWVLIAG P YIIVFWALI GNVLCVAVW KNHMRVTN YFIVNLSLAD VLVITICLPA TLVVDITETW FFQSLSCKVI PYLQTVSVSV SVLTLSLAL DRWYAICHLPL MFKSTAKRAR NSIVIWIIVS CIIMIPOAIV MECSTVFPL ANKTTLFTVC DERWGEIYP KMYHICFFLV TYMAPLCMLV LAYLIQIFRKL WCRQIPGTSS VVQRKWKPLQ PVSQPRGPGQ PTKSRMSAVA AEIKQIRARR KTARMLMVL LVFAICYLPI SILNVLKRVF GMFAHTEDRE TVYAWFTFSH WLVIYANSAAN PIIYNFLSGK FREEFKAAFS CCCLGVHHRQ EDRLTRGRTS TESRKSLLTQ ISNFDNISKL SEQVVLTSIS TLPANGAGP LQNW</p>	Homo sapiens
371	8436	Platelet- Activating Factor Receptor	NM_000952	<p>ccagctgata ttcagccca cagcaatgga gccacatgac tctccacaca tggactctga A gttccgatac actctcttc cgattgttta cagcatcatc tttgtgctcg gggctattgc taatggctac gtgctgtgg tctttgccg cctgtaccct tgcaagaat tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc tctttgatca ccttgccact ttggattgtc tactaccaaa accagggcaa ctggatactc cccaaattcc tgtgcaacgt ggctggctgc cttttctca tcaaacacta ctgctctgtg gccttccctgg gcgtcatcac ttataaccgc ttccaggcag taactcggc catcaagact gctcaggcca acacccgcaa gcgtggcatc tctttgctc tggctactct ggtggccatt ggtggagctg cactcactt cctcatcctg gactctacca acacagtgc ccagatgctt ggtcaggga acgtcactcg ctgctttgag cattaagaga agggcagcgt gccagtcctc atcatccaca tcttcatcgt gttcagcttc ttcctggtct tctcatcat cctctctgc aacctgtca tcatccgtac cttgctcatg cagccggtgc agcagcagc caacgtgaa gtcaagcgc gggcgtgtg gatgggtgc acggtcttg cgggttcat catctgcttc gtgccccacc acgtgggtga gctgccctgg acccttgctg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgcacat caggtcaccc tctgctcct tagcaccaac tgtgtcttag accctgttat ctactgttcc ctacccaaga agttccgcaa gcacctcacc gaaaagtctt acagcatgcg cagtagccgg aaatgctccc gggccaccac ggatacgggt actgaagtgg ttgtgccatt caaccagatc cctggcaatt cctcaaaaa ttagtccttg cttc</p> <p>MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVLWVF ARLYPCKKFN EIKIFMVNLT P MADMLFLITL PLWIVYQNG GNWILPKFLC NVAGCLFFIN TYCSVAFGLV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWAIVGAAS YFLILDSTNT VPDSAGSGNV TRCFEHYEKG SVPVLIHIF IVFSFFLVFL IILFCNLVII RTLLMQPVQQ QRNAEVKRRR LMWVCTVLAV FIICFVPHV VQLPWTLAEL GFQDSKFHOA INDAHQVTLCLLSTNCVLDP VIYCFLTKKF RKHLTEKFYS MRSRKCRA TTDVTVEVV PFNQPNSL KN</p>	Homo sapiens
373	8509	G Protein- Coupled Receptor Ls8509	NM_007223	<p>tg9gggcgtc ctctctgct cccgcccgcc tgtcaagctg tgttctagcg gccgagggac A cgaggggggc taagaaaggg ggcgcccgcc ctcagagcg caaaaaggcg ctgcggaacg gggtccccgt cgccagtgtc gaggcaggag ctgcggacca caagtgaggg cgtgggaagc aggaccagc acgggcgtct tggcaggcgg ccgggcgcag ggccaggctg ctgggggacg</p>	Homo sapiens

tcagggtttt ccaccaagc catggggcgt gtggggcact cgggggtccc ctctgggtc
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gtccacatta ttctctgtg ggacaagagc tgggcagttt tgaatgggtc ttgagtggtg

374	8509	G Protein- Coupled Receptor Ls8509	NP_009154.1	<p> taccocatgt gaactttctg aggatgctc acttccctgg gctctgcaga gaacacacag agagaagact ttcagagctc acagagcag ggagcaggag cactctaagg gaattc MGNHGSWISP NASEPHNASG AEAAGVNRSA LGFGEAQLY RQFTTVQVW IFIGSLLGNE P MVLWSTCRTT VPKSVNRFI KNLACSGICA SLVCVPFDII LSTSPHCWW IYTMFLCKVV KFLHKVFCVS TILSPWAIAL DRYYSVLYPL ERKISDAKSR ELVYIWAHA VVASVPVFAV TNVADIYATS TCTEWSNSL GHLYVLYVN ITTVIVPVV VFLELILRR VASASQKKKV IIAALRTPQN TISIPYASQR EAEHLATLIS MVMVFILCSV PYATLVVYQT VLNVPDTSVF LLLTAVWLPK VSLLANPVLF LTVNKSVRKC LIGTLVQLHH RYSRRNVST GSGMAEASLE PSIRSGSOLL EMFHIGQQQI FKPTEDDEES EAKYIGSADF QAKELFSTCL EGEQGPQFAP SAPPLSTVDS VSQVAPAAPV EPETFPDKYS LQFGFGPFEL PPQWLSETRN SKKRLLPPLG NTPEELIQTK VPKVGRVERK MSRNNKVSIF PKVDS </p>	Homo sapiens
375	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NM_006173	<p> ttgataggga tagaaacaca ttgggctgct tctatagtta acaagatgct gttacattcc A ttgcctcact agctctgaag actatactag cgggacaaag aaagcacctg agatgagctg agaggagggt aaaggtacac agagatcccc tggatatattg ttctatgtcc tctcaggggc tttgctacca ctagagaatt atccatatta agaacttgca ttgatattct gggttctgtt tcatttttta gggctcctcaag agcacgctca agtcattcac atgtttccat caaatacaga cacagatcag ggaagattaa accctactaa ttctcgtcg gatgctctac acaaggtgc cttccaagaa ctaatggcca aaatatccac ccacaacaca aataagctta gaaaatctct tcttacaatc ctgacacaaat ggaagtctcc ctaaaccacc cagcatctaa tacaaccacc acaaagaaca acaactcggc atttttttac tttagagtcct gtcaacctcc tctccagct ttactcctat tatgcatagc ctatactgtg gctctaattg tgggctcttt tggaaacctc tctctcatca tcatcatctt taagaagcag agaaaagctc agaattttcac cagcatactg attgccaatc tctccctctc tgataccttg ggtgtgtca ttgtgcattcca ttttactatc atctacactc tgatggacca ctggatattt ggggatacca ttctcacttg cactcctat gtgcagagtg tctcaatctc tgtgtccata ttctcacttg tttcactgc tgcgaaaaga tatcagctaa ttgtgaacct ccgtggctgg agccccagtg tgactcatgc ctactggggc atcacactga ttgggctgtt tccccctctg ctgtctattc ccttcttctt gtcctaccac ctcactgatg agcccttccg caacctctct cccccactg acctctacac ccaccagggtg gcctgtgtgg agaactggcc ctccaaaag gaccggctgc tcttaccac ctccctttt ctgtgtcagt atttgttcc tctaggcttc atcctcatct gctacttgaa gattgttatc tgcctccgca ggagaaatgc aaagttagat aagaagaagg aaaatgagggg ccggtcctaat gagaacaaga gatatcaac aatgttgatt tccatcgtgg tgacctttgg agcctgctgg ctgccccgaa tatcttcaat gtcacttttg actggtatca tgaggtgctg atgagctgcc accacgacct ggtatttgta gtttgccact tgggtgctat ggtttccaca tgtataaacc ctctctttta tggctttctc aacaaaaatt tccaaaaagg cctggtagtg cttattccac actgctgggtg cttcacacct caggaaagat gtgaaaaat tgccatctcc actatgcaca cagactccaa gaggtcttta agattggctc gtataaacac aggtatataa aaattgataa tgctgaagct cttcttgaat gggagcttggga caggtaatgg tgggaatagg gcaagatgca gaaagaagaa accagaacca aaaatagcaa ctttataccc acttttctct taggctaaga ctgcctgtct catatgtcta tccaacacac cttccaacat acacgaacac acataccacc ccttttctct taagaaaaata actctaataa ttcaaacac ctcgcccgca tcatgttg </p>	Homo sapiens

376	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NP_006164.1	<p> caaagaatga gaatgagaaa gcagagagag aggcaaacag cagtgatggc tggggaacaa tgttcacaga tacttttatt caatggaata tctacaaaag ttatgactaa tgatatgcct agtaaaaaa ctgctatacc tccttagcac tgagaat mevslnhpas ntstknns affyescqp pspallllci aytvvlivgl fgnsliliii fkkqrkaqnf tsilianlsl sdtlvcmci hftiiytldm hwifgdtmcr ltsyvsqsvsi svslfslvft averyqlivn prgwkpsvth aywgitliwl fslisipff lsyhltdpff rnslsptdly thqvacvenw pskkdrllft tsllllyfv plgfiliacyl kiviclrrrn akvdkkene grlnenkrin tmlisivtf gacwlpriss msltgmrc cattcccacc ctctctctt taataagcag ggcgaaaaa gacaaattcc aaagaggatt gttcagttca agggaatgaa gaattcagaa taattttggt aaatggattc caatatcggg aataagaata agctgaacag ttgacctgct ttgaagaaac atactgtcca ttgtctaaa ataactata acaaccaaac caatcaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgccag ctctgggctt ttgaaaaatga tgattgtcat ctgcccctgg ccattgatatt taccttagct ttgtcttagt gagctgtgat cattcttggt gtctctggaa acctggcctt gatcataatc atctgaaac aaaaggagat gaaaaatgtt accaaccatcc tgattgtgaa cctttccttc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac ttgttcaatc actgtgtcca tttctctct gatgtgtaag ttgaatcctt ttgtgcaatg gataatcaac cctcgagggg ggagacaaaa ggttctcatt gctgtggaac gacatcagct gattgtgtg gattgtgtg ctctctctt taatagacat gcttatgtag gtattgtctg taatgactga tgagccgttc caaatgtgaa gctttctctg atctaccaag taatgactga gactctcata ggttctctta gtacaaaagc aaatacgtgt gctttgatca atttccatcg gactctcata ggttctctta taccactctc ctcttggtgc tgcagtattt tgggtccactt tgttttatat ttatttgcta cttcaagata tatatacgcc taaaaggag aaacaacatg atggacaaga tgagagacaa taagtaacag tccagtgaac caaaaagaat caatatcatg ctgctctcca ttgtggtagc atttgcagtc tctgtggtcc ctcttaccat cttaaactat gtgttgattt ggaatcatca gatcatttgt acctgcaacc acaatctgtt attcctgctc tgccacctca cagcaatgat atccacttgt gtcaacccca tattttatgg gttcctgaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gcccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaactact tatagcctat ggtcccgat gacatctgtt taaaacaag cacaacctgc aacatactt gattacctgt tctcccaagg aatggggttg aaatcatttg aaaatgacta agattttctt gtcttgcttt ttactgcttt tgtgtagtgt gtcatataa catttggaa aaaaagtggt ggctttgggg tcttctggaa atagtgttga ccagacatct ttgaagtgtc ttttggaa ttatgcatat aaataaaga cttttatct gtacttattg gaatgaaatt tctttaaagt attacgatgc gctgacttca gaagtacctg ccattccaata cgggtcattag attgggtcat ctgtattaga tttagattaga tttagattgtc aacagattgg gccatcttata ctttatgata ggcattcttt tagtgtgta caatagtaac agtatgcaa agcagcttc aggagccgaa agatagcttt gaagtcattc agaagtgtt tgaggtttct gtttttgggt ggttttgggt tgtttttttt ttttttacc ttaaggaggg ctttcatttc ctcccagctg attgtcactt aaatcaaat </p>	Homo sapiens
377	9421	Neuropeptide Y Receptor Type 1	nm_000909	<p> aaagaggatt A </p>	Homo sapiens

378	9421	Neuropeptide Y Receptor Type 1	NP_000900.1	<p> ttaaaaaatga ataaaaagagc atactttctca gctgcaaaata ttatggagaa ttgggcacccc acaggaatga agagagaaaag cagctcccca acttcaaaac cattttggta cctgacaaaca agagcatttt agagtaatta atttaataaa gtaaatagat ttccatttt ttacacagac tgttcagtgt tataattatt tgaattgatg gtcaagagat ttccatttt cgtttacaat ttgtagaaac ttgtcaagct tctgggtctaa tatgtactcg aaagactttc agcttacaat ttgttagaaac acaaatatcg ttttccatac agcagtgcct atagactgac tgattttaac ttccaatgtc catctttcaa aggaagtaac accaaggtaac atagttaaag gaattattcac tttaacctagc agggaaaaat acacaaaaac tgcagatact tcataatagcc catttaact tgtataaaact gtgtgacttg tggcgtctta taaataatgc actgtaaaga ttactgaata gttgtgtcat gttaatgtgc ctaatttcat gtatcttgta atcatgattg agcttcagaa tcatttggag aaactatatt ttaaaagaaca agacatactt caatgtatta tacagataaa gtattacatg tgttgattt taaaaggcgc gacattttat taaaatcaat attgttttg ctttttctga ggagtctctt tcaagtttcat tttttctcat cccatgactt cctccgatg gt MNSTLFSQVE NHSVHSNFSE KNAQLLAFEN DDCHLPLAMI FTLLALAYGAV IILGVSGNLA P LIIILKQKE MRNVNIIIV NLSFSDLLVA IMCLPFTFVY TLMDDHWVGE AMCKLNPFVQ CVSITVSIFS LVLIAVERHQ LIINPRGWRP NNRHAYVGIA VIWVLAVASS LPFLIYQVMT DEPFQNTLD AYKDKYVCFD QFPSDSHRLS YTTLLLVLOY FGPLCFIFIC YFKIYIRLKR RNMMDKMRD NKYSRSETR INIMLLSIV AFVLCWLPIT IFNTVFDWNH QIIATCNHNL LFLILCHLTAM ISTCVNPIFY GFLNKNFQFD LQFFNFCD FRSRDDDYETI AMSTMHTDVS KTSLKQASPV AFKKINNDND NEKI agccgagcga gcccaggat gggaggcgc cgcagctcc gtctgtcaa ggccttctc A cttctgggc tgaaccccg cttgcctcc ctcaggacc agcactgcga ggcctgtcc ctggccagca acatctcaga caatggctac cggagtgcc tggccaatgg cagctggcc gccgcgtga attactccga gtgccaggag atcctcaatg aggagaaaaa aagcaagggtg cactaccatg tgcagtcac catcaactac ctgggccact gtatctccct ggtggccctc ctggtgccct ttgtcctctt tctgcgctc aggagcatcc ggtgcctgcg aaacatcatc cactggaacc tcatctccgc cttcatctg cgcaacgcca cctgggtcgt ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggctggt gcagggtggt gacagccgcc tacaactact tccatgtgac caactcttc tggatgttcg gcaggggctg ctacctgcac acagccatcg tgctaccta ctcactgac cggctgcga aatggatgtt catctgcatt ggctggggtg tgcccttccc catcattgtg gctgggcca ttgggaagct gtactacgac aatgagaagt gctggtttgg caaaaggcct aggtgtgata ccgactacat ctaccagggc cccatgatcc tggctcctgt gatcaattc atcttcttt tcaacatcgt ccgcatcctc atgaccaagc tccgggcac caccagctct gagaccattc agtacaggaa ggctgtgaaa gccactctgg tgctgtgccc cctcctgggc atcacctaca tgctgttctt cgtcaatccc ggggaggatg aggtctcccc ggtcgtcttc atctactca actccttctt ggaatccttc caggccttct ttgtgtctgt gttctactgt tctctcaata gtgaggtccg ttctgceatc cggagagagt ggcacccggtg gcaggacaag cactcgatcc gtgcccaggt ggcctgtgcc atgtccatcc ccacctcccc aaccctgtgc agctttcaca gcatcaagca gtccacagca gtctga </p>	Homo sapiens
379	9834	Corticotropin releasing factor Receptor 1	NM_004382	<p> agccgagcga gcccaggat gggaggcgc cgcagctcc gtctgtcaa ggccttctc A cttctgggc tgaaccccg cttgcctcc ctcaggacc agcactgcga ggcctgtcc ctggccagca acatctcaga caatggctac cggagtgcc tggccaatgg cagctggcc gccgcgtga attactccga gtgccaggag atcctcaatg aggagaaaaa aagcaagggtg cactaccatg tgcagtcac catcaactac ctgggccact gtatctccct ggtggccctc ctggtgccct ttgtcctctt tctgcgctc aggagcatcc ggtgcctgcg aaacatcatc cactggaacc tcatctccgc cttcatctg cgcaacgcca cctgggtcgt ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggctggt gcagggtggt gacagccgcc tacaactact tccatgtgac caactcttc tggatgttcg gcaggggctg ctacctgcac acagccatcg tgctaccta ctcactgac cggctgcga aatggatgtt catctgcatt ggctggggtg tgcccttccc catcattgtg gctgggcca ttgggaagct gtactacgac aatgagaagt gctggtttgg caaaaggcct aggtgtgata ccgactacat ctaccagggc cccatgatcc tggctcctgt gatcaattc atcttcttt tcaacatcgt ccgcatcctc atgaccaagc tccgggcac caccagctct gagaccattc agtacaggaa ggctgtgaaa gccactctgg tgctgtgccc cctcctgggc atcacctaca tgctgttctt cgtcaatccc ggggaggatg aggtctcccc ggtcgtcttc atctactca actccttctt ggaatccttc caggccttct ttgtgtctgt gttctactgt tctctcaata gtgaggtccg ttctgceatc cggagagagt ggcacccggtg gcaggacaag cactcgatcc gtgcccaggt ggcctgtgcc atgtccatcc ccacctcccc aaccctgtgc agctttcaca gcatcaagca gtccacagca gtctga </p>	Homo sapiens

382	10457	Frizzled-2	NP_001457.1	MRPRSALPRL LLPLLLPAA GQAQFHGEKG ISIPDHGFCQ PISIPCLCTDI AYNQTIMPNL P LIGHTNQEDAG LEVHQFYPLV KVQCSPELRF FLCSMYAPVC TVLEQAIPPC RSICERARQG CEALMNKFGF QWPERLRCEH FPRHGAEOIC VQONHSEDA PALITAPPPP GLQPGAGGTP GGPGGGGAPP RYATLEHPFH CPRVLKVPSY LSYKFLGERD CAAPCEPARP DGSMTFFSQEE TRFARLWILT WSVLCCASTF FTVTTLVDM QRFYPERPI IFLSGCYTMV SVAYIAGFVL QERVVCNERF SEDGYRTVVQ GTKKEGCTIL FMMLYFFSMA SSIWWVILSL TWFLAAGMKW GHEAIEANSQ YFHAAWAVP AVKTITILAM QOIDGDLSP VCFVGLNSLD PLRGFVLAPL FVYLFIGTSF LLAGFVSLFR IRTIMKHDGT KTEKLERLMV RIGVFSVLYT VPATIVIACY FYEQA FREHW ERSWVSQCHK SLAIPCPAHY TPRMSPDFTV YMIKYLMTLI VGITSGFWIW SGKTLHSWRK FYRLTNSRH GETTV	Homo sapiens
383	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	NM_022571	atggccttac tgggcagcca gcactccggc gccccctccg cggccggggc acctggcggg A acttcctcag cggccacggc gccgtgtct tccctcagca cgtggcgagc cgcggcgctg gggaacctga cggacgcaag cggaggcggc acagctgcgc ctcccggtgg cgcggcgctt ggcgggtccg gggaagcgcg ggaggcggg cggcggtga ggccggcgct aggcggcgag gcggcgccgc tgcgtgcga cggagctgca gtggcgccc aggcgtcgt cctcctgctc atcttctcgc tgtctagcct tggcaactgc gcccttcac ctgtcgtgt ggtgtatgt gaagcacggg cagctccgca cgtcaccaa cgccttcac ctgtcgtgt cctatcgga tctgctcacg gcgtgctct gccctggcgc cgccttctcg gaccttca ctcggccggc ggttcggcg cctgcgtgc ccggcgggc ctggcgggc ttctcggc caagcgtt ctcagctc tgctcgga tgcgtacgc tcagcgtgc tcgtacatct tggaccgtt actgcgtat cgtcggcgc cgcggagaa gatcggcgc cgcgcgcgc tgcagctgt gcggcgcc tggtgacgg ccctgggctt ctcctggc tgggagctgc tgcggggccc ccgggaactc gcggcgggc agagcttcca cggctgcctc taccggacct cccggagccc cgcgcagctg ggcgccctc tcagcgtggg gctgggtggg gctgctacc tgcgtccct cctgctcctc tgcttctgc actaccat ctgcaagac gtgcgcctgt cggacgtgcg cgtgcggcgc gtgaacacct acgcgcgcgt gctgcgttct tcagcgaggt gcgcacggcc accaccgtcc tcatcatga	Homo sapiens
384	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	NP_072093.1	MALLGSQHSQ APSAAGPPGG TSSAATAAVL SFSTVATAAL GNLSASGGG TAAAPGGGGL P GGSGAAREAG AAVRRPLGPE AAPLLSHGAA VAAQALVLLI IFLLSLGNC AVMGVIVKHR QLRTVTNAFI LSLSLDLIT ALICLPAAFL DLFTPPGSA PALPAGPWRG FCRPSRFFSS CFGIVYAQRG AHLVGPLLRY RRPPEKIGR RRALQLLAGA WLTAIGFSLP WELLGAPREL AAGQSFHGCL YRTSPDPAQL GGPFSVGLV ACYLLPFLLI CFCHYHICKT VRLSDVRVRP VNTYARVLR SARCAPPSS SS	Homo sapiens
385	14198	Interleukin- 8 Receptor B	nm_001557	cattcagaga cagaaggtgg atagacaaat ctccaccttc agactggtag gctcctccag A aagccatcag acaggaagat gtgaaaatcc ccagcactca tcccagaatc actaagtggc acctgtcctg ggccaagtc ccaggacaga cctcattgtt cctctgtggg aatacctccc caggagggca tcttggtatt ccccttgca acccaggtca gaatttcat cgtcaaggtt gtttcatctt ttttttctg tctaacagct ctgactacca cccaaccttg aggcacagt aagacatcgg tggccactcc aataacagca ggtcacagct gctcttctgg aggtgtccta caggtgaaa gccacgcgac ccagtcagga tttaagtta cctcaaaaat ggaagatttt	Homo sapiens

aacatggaga gtgacagctt tgaagatttc tggaaagggtg aagatcttag taattacagt
tacagtctta cctgcccc ttttctacta gatgcgccc catgtgaacc agaatecctg
gaaatcaaca agtatattgt ggtcattatc tatgccctgg tattcctgct ggcctgctg
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caacccaat gttcatcaat gaatgaatga atggtaagc aaatgtgat atgtacctaa
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accttgaaaa ctttatgcta agtgaaataa gccagacatc aacagataaa tagtttatga
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tttttttaa taaaccattt ttacttgggt gtttat

[illegible]

388	14641	Calcitonin Receptor	NP_001733.1	<p>aaacattaca tgctcagctt ggttttggac aagcctgtcc attgggcagg acctagctgt tgtaagaat tggctttaat gttgaatgta ttttggttc tgatgttat aaactgagag gtcacaaaaga atctatcact aaaaattttt aaaaactgc caaaaatata attcttagtg gaagacaata ctccctttta agagagtttg cactccctt aaactccagg atttataaag caaattactc caaggtttat aaagcagatt acctcttgcc ctgggtgtct attagcagct aaaagataaa tttgttgaat attgtaatt aaaagactcc acataagctc attaactgct ttccacccag cttcaagct taaaaagagc tcaggctttt ccaggaagat ccaggagggc taattagaaa tcaactgtg gttgaccgt tgttcttctg tattaccaa caggaggga aaaaattaac tgcctcaaat ttaaccataa atcaattcat gtttaacgtt tctcattaaa atccagtatt atattatcat atctctctt acttccagt ataatgtttt tgaataatcct gaataaacca gtatcgttac tggcactga aattaattg tgaatttgca acagtaatca gagttaccat tatttaatt gtatgtaaa tgaggagga cattgaaacc ctccaaatct ccagctcat ctatgtcata tttgacct gctttcaga agtgatttag ttgtggaag ataataaatt gattgttat ggtacatat ttagcgacc cagagaaaa taattatatt tctacagaga aatgaattt gggatactaa agtagcttga gtctccttta ctgaatgtaa gggggggac gaaaagaag tatttttcca atcacagtgt tatgtagat tggtctattt ttgtttacaa acatggaaa cagagtatt ctggcagctg tggtaacaa gtgataatat attgctaaaa tatttagat gttattatgc taatatagta ggggttgaag aaaaacaaat agcttattat agaattgcac atagtctgc ccaaatatg tgaatgctt atgcttgtt atatgtataa attaatcac agtagcttaa aagcaaaaa atgtatat ttgcataattt ctaagaat atattatca tctttcatt c</p>	YPTIEPKPFL YVGRKKMMD AQYKCYDRMQ P SYQFCPDYFP DFDPSEKVTK YCDEKGVWFK FTLVISLGIF VFFRSLGCOR ILHFFHQYMM ACNYFWMLCE LVPTTIHAIT RAVYENDNCW LSVETHLLYI AVKATMILVP LLGIQFVVFP TVKRQWAQFK IQWNQRWGR EIIPLNIEQ ESSA	Homo sapiens
389	16041	C-C Chemokine Receptor 6	NM_004367	<p>caaacgttcc caaatcttcc cagtcggctt gcagagactc ctgtctccc ggagataacc A agaagctgca tcttattgac agatgtcat cacattggtg agctggagtc atcagattgt ggggcccgga gtgagctga agggagtga tcagagcact gcctgagagt cacctctact ttcctgctac cgctgcctgt gagctgaagg ggctgaacca tacactcctt ttctacaac cagcttgcat ttttctgccc caaatgagc ggggaatcaa tgaatttcag cgatgtttc gactccagt agattattt tgtgcagtc aatactcat attactcagt tgattctgag atgttactgt gctccttgca ggaggtcagg cagttctcca ggctattgt accgattgcc tactccttga tctgtgtctt tggcctcctg gggaatattc tgggtgtgat cactttgt tttataaga aggcaggctc tatgacagac gtctatctct tgaacatggc cattgcagac atctctttg tcttactct cccattctgg gcagtgagtc atgccactgg tgcgtgggtt ttcagcaaatg ccacgtgcaa gttgttaaaa ggcatctatg ccatcaactt taactgcggg atgctgctcc tgacttgcat tagcatggac cggtagatcg ccattgtaca ggcgactaag</p>	caaacgttcc caaatcttcc cagtcggctt gcagagactc ctgtctccc ggagataacc A agaagctgca tcttattgac agatgtcat cacattggtg agctggagtc atcagattgt ggggcccgga gtgagctga agggagtga tcagagcact gcctgagagt cacctctact ttcctgctac cgctgcctgt gagctgaagg ggctgaacca tacactcctt ttctacaac cagcttgcat ttttctgccc caaatgagc ggggaatcaa tgaatttcag cgatgtttc gactccagt agattattt tgtgcagtc aatactcat attactcagt tgattctgag atgttactgt gctccttgca ggaggtcagg cagttctcca ggctattgt accgattgcc tactccttga tctgtgtctt tggcctcctg gggaatattc tgggtgtgat cactttgt tttataaga aggcaggctc tatgacagac gtctatctct tgaacatggc cattgcagac atctctttg tcttactct cccattctgg gcagtgagtc atgccactgg tgcgtgggtt ttcagcaaatg ccacgtgcaa gttgttaaaa ggcatctatg ccatcaactt taactgcggg atgctgctcc tgacttgcat tagcatggac cggtagatcg ccattgtaca ggcgactaag	Homo sapiens

tcattccggc tcggtaccag aacactaccg cgcacgaaaa tcactctgct tgttgtgtgg
gggtgtcag tcattctctc cagctcaact tttgtcttca accaaaaata caacacccaa
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390	16041	C-C Chemokine Receptor 6	NP_004358.1	<p> aaaaaatgtg ttttgtacat gaagtaggaa tegtatttca gcttcaaggt tcagattgag gggcccactg tttggagagg atggtattca ggttttctca tgtcttcaa atctgttagc gttgactct agaaatcaaa gaaagaggat ggttaccag acaattcttt tgggtgtagc aatgcgctga tggatctat gaagatgatt catgtcgtaa aactagcaca gaaacatctt gcttatttgc caaagctggg agatgagctt ctctgcataa ttaaatgtt cagataaaatg aagctgactt atttaagcaa taacctttta aacattttag ctaagatgta taaaaatgtt tccaaaatat accacatact ttattttctc ttaaatgtag tacattaggt tacatcattt ttctgtgtg ctgtggcact aaaaacagtg ccatggtaac ctgacactct caggagacat taagatagaa ggggctgttc ttcagtgtt cccattgatt ctcccatat cttttgtctc tcaggctctg gccgtctctt cctgagcctt aactgtgt LLGNILVIT FAFYKKARSM TDVYLLNMAI ADILEVLTLP FMAVSHATGA WVFSNATCKL LKGIIYAINFN CGMLLTCTIS MDRYIAIVQA TKSFRLRSRT LPRTKIICLV VWGLSVIIS STFVFNQKYN TQGSDVCEPK YQTVSEPIRW KLLMLGLELL FGFPIPLMFM IFCYTFIVKT LVQAQNSKRH KAIRVIAW LVFLACQIPH NMVLLVTAAN LGKMNRSQCS EKLIGYTKTV TEVLAFLHCC INPVLVAFIG QKFRNYFLKI LKDLWCVRKK YKSSGFSCAG RYSENISRQT SETADNDNAS SFTM </p>	Homo sapiens
391	16599	Smoothened	NM_005631	<p> atggccgctg ccgcccagc gcggggggcg gagctccgc tcttgggggt gctgctgctg A ctgctgctgg gggacccggg ccgctgagcg ggaacgcgac cgggacctggg cctcgagcg cggcggggag cgcgaggagg agcgcggcg tgaactggccc tccgcgcgcg ctgagccact gggcgggg cgcgcctgc gagcgcctgc gctacaaagt gtgcttgggc tcggtgctgc cctacggggc cactccaca ctgctggcg gagactcgga ctcccaggag gaagcgacg gcaagctcgt gctctgtg cgcctccgga atgcccccg ctgctgggca gtgatccag cctgctgtg tgcgtatag atgccaaagt gtgagaatga cggggtggag ctgccagcc gtacctctg ccaggccacc cgaggcccc gtgccatcgt ggagaggag cgggctggc ctgacttct gcgctgact cctgaccgt tccctgaagg ctgcacgaat gaggtgcaga acatcaagtt caacagtta gccagtgcg aagtgcctt ggttcggaca gacaaccca agagctggtg caggagacgt gagggctgc gcatcagtg ccagaacccg ctcttcacag aggtgagca ccaggacatg cacagctaca tgcggcctt cggggccgtc acgggacctt gaagctctt caccctggc acattcgtg ctgactggcg gaactgaat cgtaacctg ctgttattct ctctacgtc aatgcgtgct tcttggggg cagcattggc tggctggccc agttcatgga tggtgcccgc cgagagatcg tctgctgag agatggcacc atgaggcttg gggagccac ctccaatgag actctgtcct gctcatcat ctttgtcatc gtgtactacg cctgtatggc tgggtgtgtt tgggttggg tctcaccta tgcctggcac acttccctca aagccctggg caccacctac cagcctctct cgggcaagac ctccacttc cacctgctca cctgtcact ccccttgtc ctcaactgtg caatccttg tgggcccag gtggatggg actctgtgag tggcattgt tttgtgggt acaagaacta ccgataccgt gcgggcttcg tctggcccc aatcgccctg gtgtcatcg tggagggcta ctccctcatc cgaggagtca tgaactgtt ctccatcaag agcaaccacc cgggctgct gagtgaagaag gctgccagca agatcaacga gacctgctg gcctgggca ttttggctt cctggcctt ggcttctgc tcattacctt cagctgccac tctacgact tctcaacca ggctgagtg </p>	Homo sapiens

392	16599	Smoothened	NP_005622.1	actggttcgg ctctagg	gagcgagct tccgggacta tgtgttatgt caggccaatg tgaccatcgg gctgcccacc	Homo sapiens
				MAAARPARGP ELPLGLLLL	aaagagcca tccctgactg tgagatcaag aatcgcccca gccttctggt ggagaagatc	
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				VIQPLICAVY MPKCENDRVE	acgtgctca tctggaggcg tacctgtgtc aggttgactg ggcagagtga cgtatgagcca	
				EVQNIKFNS QCEVPLVRT	agcggatca agaagagcaa gatgatggcc aagccttctc ctaagcgcca cgaactcctg	
				TGLCTLFTLA TFVADWRNSN	cagaacccag gccaggagct gtccttcagg atgcacactg tgtccacaga cgggcccctg	
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				RGVMTLFSIK SNHPGLLSEK	cctgtggcaa ctccagtgc cccagagga caagccaacc tbtggctggt tgaggcagag	
				ERSFRDYVIC QANVTIGLPT	atctccccc agctgcagaa gcgctggggc cggaaagaaga agaggagga gaggaagaag	
				TLIIWRRTW C RLITQSDDEP	gaggtgtgcc cgctggcgcc gccccctgag cttcaccccc ctgccccctgc ccccgatacc	
				AGLAFDLNER SADVSSAWAQ	attcctcgac tgcctcagct gcccgcgag aatgcctgg tggctgcagg tgcctgggga	
				ISPELOKRLG RKKRRRKRKK	gctggggact cttgccgaca gggagcgtgg accctggtct ccaacccatt ctgcccagag	
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					LLAGDSDSQE EAHGKLVLS GLRNAPRCWA	
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					EGCGIQCNP LFTAEHQDM HSYIAAFGAV	
					WLAQFMDGAR REIVCRADGT	
					TSFKALGTTY QPLSGKTSYF	
					AGFVLAFIGL VLIIVGGYFLI	
					FVGYKNYR YR GFVLIITFSCH FYDFFNQAEW	
					NRPSLLVEKI NLFAMFGTGI AMSTVWWTKA	
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					IPLRLPLRQ KCLVAAGAWG	

393	17250	G Protein- Coupled Receptor GPR45	NM_007227	AGDSCRQGAW TLVSNPFCPE PSPPQDPFLP SAPAPVAWAH GRRQGLGPIH SRTNLMDEL MDADSD	atggcctgca acagcacgtc ccttgaggct tacacatacc tgcctgtgaa caccagcaac A gcctcagact cggggtccac ccagttgccc gcacccctca ggatctcctt ggccatagtg atgctgctga tgaccgtggt ggggttctctg ggcaaacactg tggctctgcat catcgtgtac cagaggccgg ctatgcgtc ggccatcaac ctgctgctgg ccacccctggc cttctccgac atcatgctgt cctctgctg catgcccctc accgccgta cctcatcac cgtgcgtggtg cactttgggg accacttctg ccgctctca gccacgctct actgggtttt tgcctggag ggcgtggcca tctgtctcat catcagcgtg gccgcttc tcatcatcgt ccagcgccag gacaagctga acccgccgag ggccaaggtg atcatcgcg tctctgggt gctgtcctc tgcatcgcgg ggcctcgct cagggctgg acgtggtgg agtgccggc gggggccca cagtgcgtgc tgggctacac ggagctccc gctgaccgg catatggtt caccctgggtg gtggcgtgt tcttcgccc ctttggcgtc atgctgtgc cctacatgtg catcctcaac acggtccgca agaaccgct gcgctgcac aaccagtcgg acagcctgga cctgcggcag ctcaccagg cgggctgctg gcgctgcag cggcagcaac aggtcagcgt ggacttgagc ttcaagacca aggccttcac caccatcctg atcctcttcg tgggcttctc cctctgctgg ctgccccact ccgtctacag cctcctgtct gtgttagcc agcgtttta ctgcggttcc tcttctacg ccaccagcac ctgcgtcctg tgggtcagtt acctcaagtc cgtcttcaac cccctcgtct actgctggag aatcaaaaaa ttcgcgaggt cctgcataga gttgctgccc cagaccttc aaatcctccc caaagtgcct gagcggatcc gaaggagaat ccagccaagc acagtatac tgtgcaatga aaaccagctc gcggttag MACNSTSLEA YTYLLNTSN ASDSGSTQLP APLRISLAIV MLMTVVGFL GNTVVCIIIV P QRPAMRSAIN LLLATLAFSD IMLSLCCMPF TAVTLITVRW HFGDHFCRLS ATLYWFFVLE GVAILLIISV DRFLIIVQRQ DKLNPRAKV IIAVSWLSF CIAGPSLTGW TLVEVPARAP QCVLGYTELP ADRAVVTLV VAVFFAPFGV MLCAYMCILN TVRKNVAVRH NQSDSLDLRQ LTRAGLRLQ RQQVSVDL S FTKAFTIL ILFVGFSLCW LPHSVYLLS VFSQRFYCGS SFYATSTCVL WFSYLKSVFN PIVYCWRIKK FREACIELLP QTFQILPKVP ERIRRIQPS TVYVCNENQS AV	Homo sapiens
394	17250	G Protein- Coupled Receptor GPR45	NP_009158.1	gttcttatga gctgctattg aacacggcag agcctgttgg tgacctgcac acaggagccc A tccagtcagt actgattgaa ttactcaagg ctgcctctct gcaagttaga gcactacagg acgtcgggac tgggcatctt cttccaacat ggccgccact gccctccgc agccactcgc cactgaggat gccgattctg agaatagcag ggtgtccttt ggcaaatctt tccctccagt ggccttcagt ctctgcagga aggatgcagt tgggtccttt cagcgggaa ctccttcttc tcatggctt ctctatagc ctgatttttg tgttggcct cagcggtggt tgagatctat ctgctgaatc tggccatctc gtccgttac gtgctcgca cactggcctt cctgggcatc tccgtggcct ggcatgggt caaccttctg ttcttgtga cactggcctt cactctttat actattaact ttacacagtgg cttcgggagt ttcttgtga agatggtgag cactctttat actattaact ttacacagtgg catcttttc attagctga tgagcctgga caagtacctg gagatcgttc atgctcagcc ctaccacagg ctgaggaccc gggccaagag cctgctcctt gctaccatag tatgggctgt gtccctggcc gtctccatcc ctgatatggt ctttgtacag acacatgaaa atcccaaggg tgtgtggaac tgccacgcag atttcggcgg gcattgggacc atttgggaagc tcttctcctc	Homo sapiens	
395	17345	G Protein- Coupled Receptor D6	NM_001296			Homo sapiens

Homo sapiens

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398 17535 Gaba (b)
Receptor 1

NP_001461.1

Homo sapiens

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aaaa

P

VKAINFLPVD

IRYRGLTRDQ

SKSYLTLENG

KVFLTGGDLP

YKALFPMSG

ELLYNDPIKI

TLHNPTRVKL

VKNLKRQDAR

TVDEMTAEVE

YDAIWALALA

GSRMAWTLIE

LFISVSVLSS

GYHIGRNQFP

YATVGLLVGM

GIFYGYKGLL

DAFAFASLA

LEKENRELEK

CDGSRVHLLY

K

399 17666 Glucagon-
Like Peptide
1 Receptor

NM_002062

Homo sapiens

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400	17666	Glucagon-Like Peptide 1 Receptor	NP_002053.1	<p>gccaattact actgggtctt ggtggagggc gtgtacctgt acacactgct ggccttctcg gtcttatctg agcaatggat cttcaggctc tacgtgagca taggctgggg tgttccccctg ctgtttgttg tccccggg cattgtcaag tacctctatg aggacagagg ctgctggacc aggaactcca acatgaacta ctggctcatt acctggctgc ccatttctct tgcctatggg gtgaacttcc tcatctttgt tcgggtcatt tcacacgtgg tatccaaact gaaggccaat ctcatgtgca agacagacat caaatgcaga cttgccaagt ccacgtgac actcatcccc ctgctgggga ctcagaggt catctttgcc tttgtgatgg acgagcacgc ccgggggacc ctgcgcttca tcaagctgtt tacagagctc tcttccacct ccttccaggg gctgatgggtg gccatattat actgctttgt caacaatgag gtccagctgg aatttcggaa gactggggag cgctggcggc ttgagcactt gcacatccag agggacagca gcatgaagcc cctcaagtgt cccaccagca gctgagcag tggagccacg gcggggcagca gcatgtacac agccacttgc caggctctct gcagctgaga ctcagcgcc tgcctctcct ggggtccttg ctgcagcccg gtggccaatc cagctcccc cacaataacc</p>	<p>SLWETVQKWR EYRQCQRL TEDPPPATDL P WASSVPQGHV YRFCTAEGLM LQKDNSSLPW GYALSFSALV IASAILLGER HLHCTRNIIH QHQWDGLLSY LDSLSCLRVF LLMQYCVAAAN SIGWGVPLLF VVPMGIVKYL YEDEGCWTRN VVSKLKANIM CXTDIKRLA KSTLTLLPLL LYCFVNNEVQ LEFRKSWERW</p>	Homo sapiens
401	18471	G Protein-Coupled Receptor LOC51210	NM_016372	<p>gccttgacac tggagatgct tagctgagg gctggctttg ttagactatt tgcaggctcg A gagatagagc ctgagatggg ggactgggccc cctgcctggg ggattgggtc gtgacctgtg tggagcccca cactgagctg cagtgggtgg ggagggtggt ttacaggggt gctctgtgca gcccccttga ttttccccctg ggagtccacg gtccagggga aggagggacag tggccccaggc cacacagctc actggggcgc tctcactccc ccagggctgg ctgctggcgg gatggacacc ctggaggagg tgacttgggc caatggggagc acagcgctac ccccaccctt ggacccaac atcagtgctc ctcactgctg cctgctgctg cttacgaag acattggcac ctccagggtc cggtaactgg acccttggct gctcactccc atgtgctct tctcactctt cctgctctgg aagcttccat ctgctcgggc gaagatccc atcacctcca gcccatttt tatcaccttc tacatccctg tgtttgtggt ggcgctggtg ggcattgccc tggggagat caccgcttc gtgagcacct cgaacgctgc aactgttctt gataagatcc tggggagat caccgcttc ttctgctggt ccacagagct gagtgtgac atctgggccc tggcctttgg cactggggag agtaagtcca gcatcaagcg ggtgctggcc atcacacag tctgttcccc ggcctactct gtcacccagg ggacctgga gatcctgtac cctgatgccc atctctcagc tgaggacttt aatactatg gccatggggg ccgcccagttc tggctggtca gctcctgctt ctcttctcg gtctactctc gcttctacgt gcttcccaag acccgcgtga aggagcgcat ctccctgctt tctcgaggga gcttctacgt gtatcggggc atctggcac tgcataacct actgcagggg ctggggagtg tctgctgtg cttcgacatc atcgaggggc tctgctgtgt agatgccaca accttctgt acttcagctt cttcgctccg ctcactacg tggcttctt ccggggcttc ttcggctcgg agccaagat cctcttctcc tacaatgcc aagtggacga gacagaggag</p>	<p>TSFQGLMVAI LYCFVNNEVQ LEFRKSWERW SSMYTATCOA SCS</p>	Homo sapiens

[illegible]

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Ls19072

405 19501 G Protein-
Coupled
Receptor
KIAA0758

Homo
sapiens

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407	21632	G Protein- Coupled Receptor Is21632	AB040964	ISAPINSLIQ MAKALIKSPS QDEMLPTYLK DLSISIDKAE HEISSSPGSL GAINILDLL STVPTQVNSE MMTHVLSTVN VILGKPVLTN WKVLQQQWTN QSSQLLHVE RFSQALQSGD SPPLSFSQTN VQMSSTVIKS SHPETYQORF VFPYFDLWGN VVIDKSYLEN LQSDSSIVTM AFPTLQAILA ODIQENFAE SLVMTTVSH NTTMPFRISM TFKNNSPSGG ETKCVFWNFR LANNTGGWDS SGCYVEEGDG DNVTCICDHL TSFSILIMSPD SPDPSSLLGI LLDIISYVGV GFSILSLAAC LVVEAVWKS VTKNRTSYMR HTCIVNIAAS LLVANTWFIV VAAIQDNRYI LCKTACVAAT FFIHFFYLSV FFWMLTIGLM LFYRLVFILH ETSRSTQKAI AFCLGYGCPL AISVITLGAT QPREVYTRKN VCWLNWEDTK ALLAFAPAL IIVVWNITIT IIVITKILRP SIGDKPKQKE KSSLFQISKS IGVLTPLLGL TWGFGLTTFV PGTNLVFIHII FAILNVFOGL FILLFGCLWD LKQVEALLNK FLSLRWSSQH SKSTSLSGST PVFSMSSPIS RRENLFSGKT GTYNVSTPEA TSSSLENSSS ASSLLN	accacctcat cccgtcccta cgccaagtgg tgtccaggg ggatcggctg ccctccagt A gctctgccag ctacctgggc aacgacaccc gcatccgctg gtaccacaac cgagcccttg tggagggtga tgagcaggcg ggcactctcc tggccgagag cctcatccac gactgcacct tcatcaccag tgagctgacg ctgtctcaca tcggcgtgtg ggcctcaggc gactgggagt gcacgtgtc catggcccaa ggcaacgcca gcaagaaggt ggagatcgtg gtgctggaga cctctgctc ctactgccc gccgagcgtg ttgccaaaca ccgcggggac ttcaggtggc ccgaaactct ggctggcatc acagcctacc agtccgtgct gcagtatccc ttcacctcag tgccccggg cgggggtgcc ccgggacccc gagcctccc cggtgtgac cgtgccggcc gctgggagcc aggggactac tcccactgtc tctacaccaa cgacatcacc aggtgtgctg acaccttct gctgatgcc atcaatgtct ccaatcgct gacctggct caccagtgc gcgtgtacac agccgaggcc gctagctttt cagacatgat ggatgtagtc tatgtggctc agatgatcca gaaatttttg ggttatgtcg accagatcaa agagctgga gaggtagtg tgacatggc cagcaacctg atgctgttg acgagacct gctgtggctg gccagegcg aggacaagg ctgcagccgc atcgtgggtg ccctggagcg catggggggg gccgccctca gccccatgc ccagcacatc tcagtgaatg cgaggaaagt ggcattggag gcctacctca tcaagccgca cagctacgtg gccctgacct gcacagcctt ccagaggagg gaggaggggg tgccggggcac acggccaggga agccctggcc agaaccccc acctgagccc gagccccag ctgaccagca gctccgcttc cgcctggcct ccgggaggcc caatgttct ctgtcgtct tccacatcaa gaacagcgtg gccctggcct ccatccagct gcccccagat ctattctcat cccttcggc tgccctggct cccccgtgc cccagactg caccctgcaa ctgctcgtct tccgaaatgg ccgctcttc cacagccaca gcaacacct ccgcccctga gctgctgggc ctggcaagag gcgtggcgtg gccaccccg tcatcttcgc aggaaccagt ggctgtggcg tgggaaacct gacagagcca gtggccgttt cgtgcggca ctgggctgag gagccgaac ctgtggccgc ttggtggagc caggaggggc ccggggaggc tgggggctgg acctcggagg gctgccagct ccgctccagc cagcccaatg tcagcgcct gcactgccag cacttgggca atgtggccgt gctcatggag ctgagcgtt tccccagga ggtggggggc gccggggcag ggctgcacc cgtgggtata cctgtgtac cctgtgtct tctgtcctc ttcgccacca tcatcaccta catcctcaac cacagctcca tccgtgtgtc ccggaaggc tggcacatgc tgctgaactt gtgcttccac atagccatga cctctgtgt ctttggggg ggcatcacac tcaccaacta ccagatggct tgccaggcg tgggcatcac cctgcactac tctccctat	Homo sapiens
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Coupled
Receptor
Is21632 BAA96055.1 Homo sapiens

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409 22315 G Protein-
Coupled
Receptor
GPR92/GPR93 NM_020400 Homo sapiens

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3
412 22925 Latrophilin- NP_056051.1 MWPSQLLIFM MLLAPIIHAF SRAPIPMVV RRELSCESYP IELRCPGTDV IMIESANYGR P Homo sapiens
TDDKICSDP AQMENIRCYL PDAYKIMSQR CNNRTOCAV AGPDVFPDPC PGTYKYLEVQ

413	25359	G Protein- Coupled Receptor GPR34	NM_005300	<p>YECVPYKVEQ KVFLLCPGLLK GYQSEHLFE SDHQSGAWCK DPLQASDKIY YMPWTPYRTD</p> <p>TLTEYSSKDD FIAGRPTTTY KLPHRVDGTG FVYDGLAFF NKERTRNIVK FDLRTRIKSG</p> <p>EAIIANANYH DTSPYRWGGK SDIDLAVDEN GLWVIYATEQ NGKIVISQL NPYTLRIEGT</p> <p>WDTAYDKRSA SNAFMICGIL YVVKSVYEDD DNEATGNKID YIYNTDQSKD SLVDVPPFNS</p> <p>YQYIAADVYN PRDNLVYWN NYHVVKYSLD FGPLDSRSG AHGQVSYIS PPIHLDSLELE</p> <p>RPSVKDISTT GPLMGSTTT STTLRTTTL SGRNSTSTP SPAVEVLDDM</p> <p>TTHLPSASSQ IPALEESCEA VEAREIMWFK TRQGIQAKQP CPAGTIGVST YLCIAPDGIW</p> <p>DPQGPDLNC SSPVWNHITQ KLKSGETAAN IARELAEQTR NHLNAGDITY SVRAMDQLVG</p> <p>LLDVQLRNL PGGKDSAA RS LNKLOKRERS CRAYVQAMVE TVNNLLQPQA LNAWRDLTTS</p> <p>DQLRAATML HTVEESAFVL ADNLKTDIV RENTDNIKLE VARLSTEGNL EDLKFPENMG</p> <p>HGSTIQLSAN TLKQNGRNGE IRVAFVLYNN LGPYLSTENA SMKLGTEALS TNHSHVIVNSP</p> <p>VITAAINKEF SNKYVLPDV VFTVVKHIQS EENFNPCSF WSYSKRTMTG YWSTQGCRLL</p> <p>TNKTHTTCS CNHLTNFAVL MAHVEVKHSD AVHDLILLDI TWVGILLSLV CLLICIFTFC</p> <p>FFRGLQSDRN TIHKNLCISL FVAELLFLIG INRTDQPIAC AVEAALLHFF FLAAFTWMFL</p> <p>EGVQLYIMLV EVFESEHSRR KYFYLVGGM PALIVAVSAA VDYSYGTDK VCWLRLDTYF</p> <p>IWSFIGPATL IIMLVIFLG IALYKMFHHT AILKPESGCL DNINEDNRP FIKSWVIGAI</p> <p>ALLCLLGLTW AFLMYINES TVIMAYLEFI FNSLQGMFIF IFHCVLQKKV RKEYGKCLRT</p> <p>HCCSGKSTES SIGSGKTS GS RTPGRYSTGS QSRIRRMND TVRKQSESSF ITGDINSSAS</p> <p>LNREPYRETS MGVKLNIAIYQ IGASEQCQGY KCHGYSTTEW</p> <p>atgagaagtc ataccataac aatgacgaca acttcagtcga gcagctggcc ttactctcc A</p> <p>cacagaatgc gctttataac caatcatagc gaccacaaccg cacaaaaactt ctacagcaaca</p> <p>ccaaaatgta ctactgttcc catgatgaa aaattgtctat ctactgtgtt aaccacatcc</p> <p>tactctgta ttttcactgt gggactggtt gggaaacataa tcgcccctcta tgtatttctg</p> <p>ggtattcacc gtaaaagaaa ttccattcaa atttatctac ttaacgtagc cattgcagac</p> <p>ctctactca tcttctgct cctttccga ataattgtatc atattaacca aaacaagtgg</p> <p>acactagggtg tgattctgtg caagggtgtg ggaacactgt tttatatgaa catgtacatt</p> <p>agcattattt tgcttggtt catcagtttg gatcgctata taaaattaa tcggtctata</p> <p>cagcaacgga aggcaataac aaccaaaaca agtatttatg tctgttgtat agtatggatg</p> <p>cttgctcttg gtggattcct aactatgatt atttaacac ttaagaaagg agggcataat</p> <p>tcacaaatgt gttccatta cagagataag cataacgcaa aaggagaagc catttttaac</p> <p>ttcattcttg tggtaattgt ctggctaatt ttcttactaa taatccttc atatattaag</p> <p>attgggaaga atctattgag gatttctaaa aggaggtcaa aatttctaa ttctggtaaa</p> <p>tatgccacta cagctcgtaa ctcttttatt gtacttatca ttttactat atgttttgtt</p> <p>ccctatcatg ccttctgatt catctacatt tcttcacagc taaatgtatc atcttgctac</p> <p>tggaagaagaa ttgttcacaa aaccaatgag atcatgctgg ttctctcatc ttccaatagt</p> <p>tgcttagatc cagtcattga ttctctgatg tccagtaaca ttcgcaaaaat aatgtgcca</p> <p>cttcttttta gacgatttca aggtgaacca agtaggagtg aaagcacttc agaatttaa</p> <p>ccaggatact cctgcatga tacatctgtg gcagtgaaga tacagtctag ttctaaaagt</p> <p>actga</p>	Homo sapiens
414	25359	G Protein- Coupled	NP_005291.1	<p>MRSHITMTT TSVSSWPYSS HRMFITNHS DQPPQNFSAT PNVTTCPMDE KLLSTVLTTTS P</p> <p>YSVIFIVGLV GNIIALYVFL GIHRKRNSIQ IYLLNVAIAD LLLIFCLPFR IMYHINQNKW</p>	Homo sapiens

Receptor
GPR34

415

AX068267

30698 G Protein-
Coupled
Receptor
Ls30698

Homo
sapiens

TLGVILCKVV GTLFYNNMYI SIILGFISL DRYIKINRSI QQRKAITTKQ SIYVCCIVWM
LALGGFLTMI ILTLKKGHN STMCFHYRDK HNAKGAEIEN FILVVMFWLI FLIIILSYIK
IGKNLLRISK RRSKEPNSGK YATTARNSEI VLIIFTICFV PYHAFRFIYI SSQLVNVS CY
WKEIVHKTNE IMLVLSSFNS CLDPVMYFLM SSNIRKIMCQ LLFRRFQGEF SRSESTSEFK
PGYSLHDTSV AVKIQSSSKS T
gtttccagat cgggtttctcg caacaggcag tcaagttctca ctgggccccct tggactccca A
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416 30698 G Protein- Coupled Receptor Ls30698 CAC27252.1 Homo sapiens

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LIVLVAVN TORPSIGSSK SQDVVIMRI SKNVAILTPL LGLTWGFGIA TLIETSLTF
HIIFALLNAF QGFFILLFGT IMDHKIRDAL RMRMSSLKKG SRAAENASLG PTNGSKLMNR

QG

417 30875 G Protein- Coupled Receptor GPR87/GPR95 NM_023915 Homo sapiens

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418	30875	G Protein- Coupled Receptor GPR87/GPR95	NP_076404.1	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTTLAKL PNNELHGOES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILN P GLAWIFFHI RNKTSFIFYL KNIVVADLIM TLTFPFRIVH DAGGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVKPFPGDS RMYISITFKV LSVCVWVIMA VLSLPNIILT NGQPTEDNIH DCSKLKSPIG VKWHTAVTVV NSCLFVAVLV ILIGCYAIAI RYIHKSSRQF ISQSSRRKRKH NOSIRVWVAV FFTCELPYHL CRIPFTFSLH DRLIDESAQK ILYYCKEITL FLSACNVCLD PIIFYMCRS FSRRLFKNKSN IRTRESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtctg ccagcatgct ctgcccaccc cagccgaggt tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcaccag ttcatcgcca tcatgtcat caccattttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaaact tctgctgtc cgtgttggtg ctgccttttg tggtagcag ctcctatcgc aggaatgga tctttggtg agtgtggtg aacttctctg cctcctcta cctgctgac cctcgtcca gcatgctaac cctcggggtc attgccatcg accgtacta tctgtgctcg taccctatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc acttgcttac atctggcttc actcgtctcat cggctgcctg ccaccctgt ttggttggtc atcctggag tttgacgagt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggc ttctggcaga tctgtgtgct cctcttcccc ttcttggtca tctgtgtgtg ctatggcttc atcttcgctg tggccaggggt caaggcacgc aaggtgcact gtggcacagt cgtcatcgtg gaggaggatg ctcagaggac cgggaggaaag aactccagca cctccacctc ctcttcaggc agcagaggga atgcctttca ggtgtgtgct tactcgcca accagtcaa agcctcatc accatcctgg tggctcctgg tgccttcctg gtcacctgg gccctacat ggtgtgctc tgggtgctc tggctgtcct tggccagcgc tgtctgccac gtctccccga gctggagac ttgggccaca tggctgtcct tggccagcgc tgtctgccac ccctgatct atggactctg gaacaaagaca gttcgcacaa aactactggg catgtgcttt gggaccggt attatcgga accatttgt caacgacaga ggaactccag gctcttcagc atttccaaaca ggaacacaga cctgggacctg tccccacacc tcaactgcgt catggcaggt ggacagcccc tggggcacag cagcagcag ggggacactg gcttcagctg ctccccaggac tcaggtaacc tgcgtgcttt ataagcctc cactgtcgc gttttccctg tgttgctgtt ccccctgtc gcgtttcccc tgtgcaggt caagagctgg cggaggggca ttccccacgg tg	Homo sapiens
419	31568	G Protein- Coupled Receptor RE2	NM_007369	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTTLAKL PNNELHGOES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILN P GLAWIFFHI RNKTSFIFYL KNIVVADLIM TLTFPFRIVH DAGGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVKPFPGDS RMYISITFKV LSVCVWVIMA VLSLPNIILT NGQPTEDNIH DCSKLKSPIG VKWHTAVTVV NSCLFVAVLV ILIGCYAIAI RYIHKSSRQF ISQSSRRKRKH NOSIRVWVAV FFTCELPYHL CRIPFTFSLH DRLIDESAQK ILYYCKEITL FLSACNVCLD PIIFYMCRS FSRRLFKNKSN IRTRESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtctg ccagcatgct ctgcccaccc cagccgaggt tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcaccag ttcatcgcca tcatgtcat caccattttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaaact tctgctgtc cgtgttggtg ctgccttttg tggtagcag ctcctatcgc aggaatgga tctttggtg agtgtggtg aacttctctg cctcctcta cctgctgac cctcgtcca gcatgctaac cctcggggtc attgccatcg accgtacta tctgtgctcg taccctatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc acttgcttac atctggcttc actcgtctcat cggctgcctg ccaccctgt ttggttggtc atcctggag tttgacgagt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggc ttctggcaga tctgtgtgct cctcttcccc ttcttggtca tctgtgtgtg ctatggcttc atcttcgctg tggccaggggt caaggcacgc aaggtgcact gtggcacagt cgtcatcgtg gaggaggatg ctcagaggac cgggaggaaag aactccagca cctccacctc ctcttcaggc agcagaggga atgcctttca ggtgtgtgct tactcgcca accagtcaa agcctcatc accatcctgg tggctcctgg tgccttcctg gtcacctgg gccctacat ggtgtgctc tgggtgctc tggctgtcct tggccagcgc tgtctgccac gtctccccga gctggagac ttgggccaca tggctgtcct tggccagcgc tgtctgccac ccctgatct atggactctg gaacaaagaca gttcgcacaa aactactggg catgtgcttt gggaccggt attatcgga accatttgt caacgacaga ggaactccag gctcttcagc atttccaaaca ggaacacaga cctgggacctg tccccacacc tcaactgcgt catggcaggt ggacagcccc tggggcacag cagcagcag ggggacactg gcttcagctg ctccccaggac tcaggtaacc tgcgtgcttt ataagcctc cactgtcgc gttttccctg tgttgctgtt ccccctgtc gcgtttcccc tgtgcaggt caagagctgg cggaggggca ttccccacgg tg	Homo sapiens
420	31568	G Protein- Coupled Receptor RE2	NP_031395.1	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTTLAKL PNNELHGOES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILN P GLAWIFFHI RNKTSFIFYL KNIVVADLIM TLTFPFRIVH DAGGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVKPFPGDS RMYISITFKV LSVCVWVIMA VLSLPNIILT NGQPTEDNIH DCSKLKSPIG VKWHTAVTVV NSCLFVAVLV ILIGCYAIAI RYIHKSSRQF ISQSSRRKRKH NOSIRVWVAV FFTCELPYHL CRIPFTFSLH DRLIDESAQK ILYYCKEITL FLSACNVCLD PIIFYMCRS FSRRLFKNKSN IRTRESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtctg ccagcatgct ctgcccaccc cagccgaggt tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcaccag ttcatcgcca tcatgtcat caccattttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaaact tctgctgtc cgtgttggtg ctgccttttg tggtagcag ctcctatcgc aggaatgga tctttggtg agtgtggtg aacttctctg cctcctcta cctgctgac cctcgtcca gcatgctaac cctcggggtc attgccatcg accgtacta tctgtgctcg taccctatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc acttgcttac atctggcttc actcgtctcat cggctgcctg ccaccctgt ttggttggtc atcctggag tttgacgagt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggc ttctggcaga tctgtgtgct cctcttcccc ttcttggtca tctgtgtgtg ctatggcttc atcttcgctg tggccaggggt caaggcacgc aaggtgcact gtggcacagt cgtcatcgtg gaggaggatg ctcagaggac cgggaggaaag aactccagca cctccacctc ctcttcaggc agcagaggga atgcctttca ggtgtgtgct tactcgcca accagtcaa agcctcatc accatcctgg tggctcctgg tgccttcctg gtcacctgg gccctacat ggtgtgctc tgggtgctc tggctgtcct tggccagcgc tgtctgccac gtctccccga gctggagac ttgggccaca tggctgtcct tggccagcgc tgtctgccac ccctgatct atggactctg gaacaaagaca gttcgcacaa aactactggg catgtgcttt gggaccggt attatcgga accatttgt caacgacaga ggaactccag gctcttcagc atttccaaaca ggaacacaga cctgggacctg tccccacacc tcaactgcgt catggcaggt ggacagcccc tggggcacag cagcagcag ggggacactg gcttcagctg ctccccaggac tcaggtaacc tgcgtgcttt ataagcctc cactgtcgc gttttccctg tgttgctgtt ccccctgtc gcgtttcccc tgtgcaggt caagagctgg cggaggggca ttccccacgg tg	Homo sapiens
421	36534	G Protein- Coupled	NM_003667	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaaata aatgtttctt ttcattatcc ttaaaaaaaa aa MGFNLTTLAKL PNNELHGOES HNSGNRSDGP GKNTTLHNEF DTIVLPVLYL IIFVASILN P GLAWIFFHI RNKTSFIFYL KNIVVADLIM TLTFPFRIVH DAGGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKVKPFPGDS RMYISITFKV LSVCVWVIMA VLSLPNIILT NGQPTEDNIH DCSKLKSPIG VKWHTAVTVV NSCLFVAVLV ILIGCYAIAI RYIHKSSRQF ISQSSRRKRKH NOSIRVWVAV FFTCELPYHL CRIPFTFSLH DRLIDESAQK ILYYCKEITL FLSACNVCLD PIIFYMCRS FSRRLFKNKSN IRTRESIRS LQSVRRSEVR IYYDYTDV ggccttatct ttccagtctg ccagcatgct ctgcccaccc cagccgaggt tgcactgacc A atgagcctca actcctccct cagctgcagg aaggagctga gtaatctcac tgaggaggag ggtggcgaag ggggcgtcat catcaccag ttcatcgcca tcatgtcat caccattttt gtctgcctgg gaaacctggt catcgtggtc acctgtaca agaagtccta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaaact tctgctgtc cgtgttggtg ctgccttttg tggtagcag ctcctatcgc aggaatgga tctttggtg agtgtggtg aacttctctg cctcctcta cctgctgac cctcgtcca gcatgctaac cctcggggtc attgccatcg accgtacta tctgtgctcg taccctatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc acttgcttac atctggcttc actcgtctcat cggctgcctg ccaccctgt ttggttggtc atcctggag tttgacgagt tcaaatggat gtgtgtggt gcttggcacc gggagcctgg ctacacggc ttctggcaga tctgtgtgct cctcttcccc ttcttggtca tctgtgtgtg ctatggcttc atcttcgctg tggccaggggt caaggcacgc aaggtgcact gtggcacagt cgtcatcgtg gaggaggatg ctcagaggac cgggaggaaag aactccagca cctccacctc ctcttcaggc agcagaggga atgcctttca ggtgtgtgct tactcgcca accagtcaa agcctcatc accatcctgg tggctcctgg tgccttcctg gtcacctgg gccctacat ggtgtgctc tgggtgctc tggctgtcct tggccagcgc tgtctgccac gtctccccga gctggagac ttgggccaca tggctgtcct tggccagcgc tgtctgccac ccctgatct atggactctg gaacaaagaca gttcgcacaa aactactggg catgtgcttt gggaccggt attatcgga accatttgt caacgacaga ggaactccag gctcttcagc atttccaaaca ggaacacaga cctgggacctg tccccacacc tcaactgcgt catggcaggt ggacagcccc tggggcacag cagcagcag ggggacactg gcttcagctg ctccccaggac tcaggtaacc tgcgtgcttt ataagcctc cactgtcgc gttttccctg tgttgctgtt ccccctgtc gcgtttcccc tgtgcaggt caagagctgg cggaggggca ttccccacgg tg	Homo sapiens

Receptor
GPR49

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304/448

Homo
sapiens

P

NP_003658.1

36534 G Protein-
Coupled
Receptor
GPR49

422

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 cctccagtt ccgtgccatc accagcttat ccagtgactg agagctgcca tcttctctt
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 PSNLSVFTSY LDLSMNNISQ LLNPPLPSLR FLEELRLAGN ALTYIPKGAF TGLYSLKVLV
 LQNNQLRHVP TEALQNLRSI QSLRLDANHI SYVPPSCFSG LHSRLHLWLD DNALTEIPVQ
 AFRSLSALQA MTLALNKIHH IPDYAFGNLS SLVVLHLNHN RIHSLGKKCF DGLHSLLETLD
 LNNNLDEFP TAIRTLNLK ELGFHSNNIR SIPEKAFVGN PSLLTIHFYD NPIQFVGRSA
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 CSPSPGPFKP CEHLLDGWL I RIGVWTIAVL ALTCONALVTS TVFRSPLYIS PIKLLIGVIA
 AVNMLTGVS AVLAGVDAFT FGSFARHGAN WENGVGCHVI GFLSIFASES SVFLTLAAL
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 PVAFLSFSSL INLTFSISPEV IKFILLVVVP LPACLNPLLY ILFNPHEKED LVSLRKQTYV
 WTRSKHPSLM SINSDDVEKQ SCDSIQALVT FTSSSIYDL PPSSVPSPAY PVTESCHLSS
 VAFVPC

Homo
sapiens

A

NM_004736

37498 Xenotropic
and
Polytropic
Retrovirus
Receptor
(XPR1)

423

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 aactttctac tataaatccc gggtttggct gcttaaaactg ctgtttcag tatttacagc

424	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	NP_004727.1	<p>cccttccat aaggtaggct ttgctgattt ctggctggcg gatcagctga acagcctgtc agtgatactg atggacctgg aatatatgat ctgcttctac agtttgagc tcaaatggga tgaagtaag ggcctgttg ccaataattc agaagaatca ggaatttgcc acaatatac atagtgtg cgggccattg ttcatgcat ttctcattta gttaatgctg gcaagtactc gcgccgat cgagacacaa aaaggccctt cctcattta gttaatgctg gcaagtactc cacaacttc ttcatggtg cgtttgcag cctttacag actcacaaa aacgaggtca ctcggacact atggtgttct ttacactgtg gatgtcttt tatatcata gttcctgcta tacctcatc tgggatctca agatggactg ggtctcttc gataagaatg ctggagagaa cactttctc cgggaagaga ttgtataccc ccaaaaagcc tactactact gtgccataat agaggatgtg attctgcgt ttgcttgagc tatccaaatc togattacct ctacaacttt gttgccctcat tctggggaca tcattgctac tgtctttg ccacttgagg ttctcggcg attgtgtg aacttcttc gctggagaa tgaacatctg aataactgtg gtgaattccg tgctgtcgg gacatctctg tggcccccct gaacgcagat gatcagactc tctagaaca gatgatggc caggatgatg ggtacgaaa cgcgcagaag aatcggtcat ggaagtacaa ccagagcata tccctgcgc ggcctgcct cgcttctcaa tccaaggctc gtgacactaa ggtattgata gaagacacag atgatgaagc taacacttga atttctgaa gtctagctta acatcttgg ttttctact ctacaactc ttctcgcac aacgcaacct ctagtacct tccagccgaa acaggagaa aacacataac acattttcc agctcttccg gatcggatcc tatggactcc aaacaagctc actgtgttc tttctttc ttctggttta attttaattt tctattttc aaacaagtat ttacttcatt tgccaactcag aggatgtttt agaaacaaa acatagtatc ttatggattg ttacacata caagacata gatccctatc aggatgaaga acaggcattg caaggacct ctgatggag cgtactgaga tatctcggct tccgctcagc ccggttttga atggttgaa ccggacattg gtttttaa ttttctcag ttatgtgga gaatttttt ctctcctca taccagcgc aaaggcactg gccgacttg caggaagaatg gcaacttaa gcagtacctt cattcatgaa gctacttttt aattgatgt aactttctt attttgggaa ggtgtgctg gtgggtggga aatatgatgt attgtttaca catagtttc tcattattta tgaacttaa ccatacagaa tgatataact cctgtgcaat gaagtgata acagtaaaag aaggcaggag aaaaaaaaa</p> <p>TCEKELAKIN TFEYSEKIAEA QRRFATLQNE LQSSLDAQKE STGVTTLRQR RKPVFHLSHE ERVQHRNIKD LKLAFFSEFYI SLILLQNYQN LNFTGFRKIL KKHDKILETS RGADWRVAHV EVAPFYTCCK INQLISETEA VTNLELEDGD RQKAMKRLRV PPLGAAQAPAP AWTTFRVGLF CGIFIVLNI LVLAAVFKLE TDRSIWPLIR IYRGFLLIE FLELLGINTY GWRQAGVNHV LIFEINPRSN LSHQLFEIA GFGLIWCLS LLACFFAPIS VIPTVYVPLA LYGFVFFLI NPTKTFYYS RFWLLKLLFR VFTAPFHKVG FADFVLADQL NSLSVILMDL EYMICFYSLE LKWDESKGLL PNNSESGIC HKYTYGVRAI VQCIPAWLRF IQCLRRYRDT KRAFFHLVNA GKYSTTFEVM AFAALYSTHK ERGHSDTMVF FYLWIVFYII SSCYTLIWDL KMDWGLFDKN AGENTFLREE IVYPQAYY CAIEDVILR FAWTIQISIT STLLPHSGD IIATVFAPLE VFRFVNFF RLENEHLNCC GEFRVDRIS VAPLNADDQT LLEQMDQDD GVRNRQKNS WKYNQSI SLR RPRLASQSKA RDTKVLIEDT DDEANT</p>	Homo sapiens
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425	40881	Lung Seven Transmembran e Receptor 2 (IUSTR2)	AX073578	agagatggca gtgagcgaga ggaggggggt cggccgcggg agcccccggt agtgggggca A gcggtactt ctggtgctgc tgttgggtgg ctgctccggg cgcattccacc ggctggcgt gacggggag aagcgagcg acatccagct gaacagcttc ggtttctaca ccaatggctc tctggagtg gagttagcg tctgcggt gggcctccgg gaggcagaag agaagtccct gctggtggg ttcagtctca gccgggttcg gctggcaga gttcgtctct attcaaccg ggattccag gactgccctc tccagaaaaa cagtagcagt tctcgtggtc tgttctcat caacaccaag gatctgcagg tccaggtgcg gaagtatga gaggagaaga cgttgtttat ctttcccggt ctctcccg aagcaccct caaacagggt ctccgaagc cacaggccac agtccccgc aaggtggatg gcggaggag ctctgcagc agcaagccca agtcaacacc cgagtgatt cagggtccta gtgggaagg caaggacct gtgttgggct tgagccacct caacaactc tacaactca gtttccagt ggtgatcgg tctcaggcg aagaaggcca gtacagcctg aactccaca actgcaaca ttcagtcca ggaaggagc atccattcga catcacggtg atgatccgg agaagaacc cgatggcttc ctgtcggcag cggagatgcc cttttcaag ctctacatgg tcatgtccg ctgcttctc gccgtggca tcttctgggt gtccatcctc tgcaggaaac cgtacagcgt ctccaagatc cactggctca tggcggcctt ggccttcacc aagagcatct ctctcctct ccacagcatc aactactact tcatcaacag ccagggccac cccatcgaag gccctgcgt catgtactac atgcacacc tgcgaagg cgccctctc ttcatacca tgccttgat tggctcagg tggccttca tcaagtact cctgtcggat aaggagaaga aggtcttgg gatcgtgat cccatcagg tctgggcaa cgtggcctac atcatcatcg agtcccgga ggaaggcgc agcactacg tgcgtgtaa ggagattttg ttcctggtg acctcatct cgtgtgtgc atcgttctc ccgtagtctg gtccatccgg catctccagg atcgtctgg cacagacgg aaggtggcag tgaacctggc caagctgaag ctgttccggc attactatgt catggtcatc tgcactgct acttcaccg catcatgcc atcctgctgc aggtggctgt gcccttccag tggcgtggc tgtaccagct cttgggtgag ggctccacc tggcctctt cgtgtcacg ggctacaagt tccagccac agggaacaac ccgtacctgc agtgcacca ggagacagag gaggatgttc agatggagca agtaatgacg gactctgggt tccgggaagg cctctccaa gtcaacaaaa cagccagcgg gcgggaactg ttatgatcac ctccacatct cagacaaaag ggtcgtcctc cccagcatt tctcactcct gcccttctc cacagcgtat gtggggagggt ggagggggtc catgtggacc aggcggccag ctcccgggga ccccggttc cggacaagcc catttggaa agagtcctc tctcccccc aaatatggg cagccctgtc cttaaccggg gaccaccct cccctccagc tatgtgtaca ataatgacca atctgtttg ct	Homo sapiens
426	40881	Lung Seven Transmembran e Receptor 2 (IUSTR2)	CAC28410.1	MAVSERRGLG RGSPAEMGQR LLLVLLGGC SGRIHRLALT GEKADIQLN SFGFTNGSL P EVELSVLRIG LREAEKSLI VGFSLSRVS GRVRSYSTRD FQDCPLQKNS SSFLVLFLIN TKDLQVQRK YGEQTLFIF PGLLPEAPSK PGLPKPQATV PRKVDGGSTS AASKPKSTPA VIQGPSGKDK DLVLGLSHLN NSYNFSFHV IGSQAEQGY SLNFHNCNNS VPGKEHPFDI TVMIREKNPD GFLSAEMPL FKLYMVSAC FLAAGIFWVS ILCRNTYSVF KHWLMAALA FTKSISLLFH SINYIFINSQ GHPIEGLAM YIAHLKWS LLFITIALIG SGWAFIKYVL SDKEKKVFGI VIPMQVLNV AYIIIESREE GASDYLWKE ILFLVDLIC GAILFPVWS IRHLQDASGT DGKVAVNLAK LKLFHYHYM VICVYFTRI IAILQVAVP FQWQWLYQLL VEGSTLAFFV LTGYKFQPTG NNPYLQLPQE DEEDVQMEQV MTDSGFREGL SKVNKTASGR	Homo sapiens

427	42697	G Protein- Coupled Receptor GPR64	NM_005756	ELL	Homo sapiens
				agccagcccg aggcagcgag cggcagggtg gcacagaggt tctccacttt gttttctgaa A	
				ctcgcggtca ggatggtttt ctctgtcagg cagtggtgcc atgttggcag aactgaagaa	
				gttttactga cgttcaagat attcctgttc atcatgttc ttcattgtcgt tctggtaaca	
				tccttgaag agtatactga taattccagt ttgtcaccac cactgctaa attatctgtt	
				gtcagttttg cccctcctc caatggagt gaacaccaa gcccaatga tgttacttta	
				agcttactcc ctccaacga aacagaaaa actaaaaa ctatagtaaa aaccttcaat	
				gcttcaggcg tcaaacccca gagaaatatic tgcaatttgt catctatttg caatgactca	
				gcatttttta gaggtagat catgtttcaa tatgataaag aaagcactgt tccccagaat	
				caacatataa cgaatggcac cttaacttga gtccgtgtc taagtgaatt aaaacgtcca	
				gagctcaaca aaaccttga aacctaaagt gagacttact ttataatgtg tgctacagca	
				gaggccaaa gcacattaaa ttgtacattc acaataaaac tgaataaac aatgaatgca	
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				tcacatcccg tgggtcctcg ggccactgtg ctttcccagg tcccacaaag tacctctttt	
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				attgtcgggt gggtgggtacc agctgtggtt gtgaccatca tcttgactat atccccagat	

10

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Receptor
GPR64

429	45937	KIAA1624 Protein	AF376725	GEIMFQYDKE STVPQNHIT NGTLTGVLSL SELKRSELNK TIQTLSETYF IMCATAEAQS	4
				TLNCTFTIKL NNTMNACAAI AALERVKIRP MEHCCCSVRI PCPSSPEELG KLQCDLQDPI	
				VCLADHPRGP PFSSSQSIPV VPRATVLSQV PKATSFAPPP SPSPVTHNVP SPIGEIQPLS	
				PQPSAPIASS PAIDMPQSE TISSPMQTH VSGTPPVKA SFSSPTVSAP ANVNTTSAPP	
				VQTDIVNTSS ISDLENQVLQ MEKALSIGSL EPNLAGEMIN QVSRLLHSPP DMLAPLAQRL	
				LKVVDDIGLQ INFSTTISL TSPSLALAVI RVNASSENTT TFVAQDPANL QVSELTQAPE	
				NSIGTITLPS SLNNLPAHD MELASRVQFN FFETPALFQD PSLENLSLIS YVISSSVANL	
				TVRNLRNVT VTLKHINPSQ DELTVRCVFW DLGRNGRRGG WSDNGCSVKD RRLNETICTC	
				SHLTSFGVLL DLSRTSVLPA QMMALTFITY IGCGLSSIFL SVTLVTYIAF EKIRRDYPSK	
				ILIQLCALLL LNLVFLDLS WIALYRMQGL CISVAVFLHY FLLVSFTWMG LEAFHMYLAL	
				VKVENTYIRK YILKFCIVGW GVPVAVVTII LTISPDNVGL GSYGKFPNGS PDDFCWNNN	
				AVFYITVVG YFCVIFLLNVS MFIVVLVQLC RIKKKKQLGA QRKTSIQDLR SIAGLTFLLG	
				ITWGEAFFAW GPNVTFMYL FAIFNTLQGF FIFIFYCVAK ENVRKQWRRY LCCGKLRLAE	
				NSDWSKTATN GLKKQTVNQG VSSSNSLQSS SNSTNSTTL LVNDCSVHA SGNNGMASTER	
				NGVSFSVQNG DVCLHDFGK QHMFNEKEDS CNGKGRMALR RTSKRGSLSHF IEQM	
				gaacaaacat ggccgctctg gcgcccgtcg gctccccgc ccccccggt cctaggctgg A	
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				aaggccctta cagtctttat ttcatataat gccttggaag agaattgcca agtgacaagt	
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				gagaaattcc tctcccaaaa ttatacatc caatggcctt tttctcttt ttttctgga	
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				tcctggcaaa tggagcctac atcatcatag agtccacga ggagggcacg actgaatag	
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				tccgtccggc ttcagataac cctacctac aactttctca ggaagaagaa gacttggaaa	

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P

tggagtcctg tgtgacaaca tctgggggtga tggaaagtat gaagaaagtc aagaaggtga
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 MAALAPVGGP ASRGPRLAAG LRLPMLGLL QLLAEPGLGR VHLALKDDV RHKVLNFTG P
 FFKDGYMVVN VSSLNEPE DKDVTIGFSL EKNVDFSS YLDEDVNYCI LKKQSVSVTL
 LILDISRSEV RVKSPPEAGT QLPKIIISRD DRTVLDGQFSS NVNPSAGNQ TQKTQDGGKS
 KRSTVDSKAM GEKSFVHNN QGAVSFQFF NISTDDQEG YSLYFHKCLG KELPSDKFTF
 SLDIEITEKN PDSYLSAGEI PLPKLYISMA FFFFLSGTIW IHLRKRND VFKIHLMAA
 LPFTKSLSV FHAIDYHYS SQGFPIEGWA VVYIITHLLK GALLFITIAL IGTGWAFIGH
 ILSDKDKKIF MIVIPLOVLA NVAYIIEST EEGTTEYGLW KDSLFLVDLL CCGAILFPVV
 WSIRHLQEAS ATDGKAANL AKLKLFRHY VLVICYIYFT RIIAFLKLA VPFWKWLQ
 LIDETATLVE FVLTYKFRP ASDNPYLQLS QEEDELMES VVTSGVMS MKKVKKVTNG
 SVEPQGEWEG AV
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A

AAK57695

KIAA1624
Protein

45937

430

NM_012344

Neurotensin
Receptor
type 2

50847

431

432	50847	Neurotensin Receptor type 2	NP_036476.1	<p>acagtgaacc acctgctggc cctctgctcc caagtgcgt ccaattctac ccggtgcagc</p> <p>tccaccccca gccgcctgga gctgctgagt gagagggtc tctcagctt catcgtatgg</p> <p>aagaagacct ttatccagg aggcagggtc agctggtga gacataaaga cgtgcgcgg</p> <p>atccgcagcc tccagcgag cgtccagggtt ctcagagcca tctgtgtcat gtatgtcatc</p> <p>tgctggctgc cgtaccatgc ccgcaggctc atgtactgt acgtacctga tgacgcgtgg</p> <p>actgacccac tgtacaattt ctaccactac ttctacatgg tgaccaaac acctttctac</p> <p>gtcagctcag ctgtgactcc tcttctctac aacgcgtgt cctctcctt cagaaaaac</p> <p>ttcctggaag ccgtcagctc cctgtgtgga gagcaccac ccatgaagcg gttacccccg</p> <p>aagccccaga gtccaccct aatggataca gcttcaggct ttggggatcc ccagaaaaac</p> <p>cggacctgaa tgtaatgcaa gaataacag aacaagcaa atgaccagct gcttagtcac</p> <p>ctggcaaaag aggtgagcaa cctcactact aatcattcaa gcttcgacg caggcgact</p> <p>tctatcaacc cctgctctgc tgagaacct caagcgaggg gaagccacgt gaccctcct</p> <p>agcctcaggc tccctctgtc gtgtagtggg gataaagaac agcaccatc tcttagtgtt</p> <p>gctgagact aaagtgtta gcacagaacc tgggtcgtag tagatgctca ataaattttt</p> <p>gctggcacg</p>	<p>ALSVHVVLKA P</p> <p>AKVLTALYA LIWALGAAGN</p>	Homo sapiens
433	53440	G Protein- Coupled Receptor LS53440	AX107037	<p>cagagaggct gtatttcagt gcagcctgcc agacctctc tggaggaaga ctggacaaag A</p> <p>gggtgcacac attccttcca tacggttgag cctctacctg cctggtgctg gtcacagttc</p> <p>agcttcttca tgatggtgga tcccaatggc aatgaatcca gtgtacata ctctaccta</p> <p>ataggcctcc ctgggtttaga agaggctcag ttctggttgg ccttcccat gtgctccctc</p> <p>taccttattg ctgtgctagg taacttgaca atcatctaca ttgtgcggac tgagcacagc</p> <p>ctgcatgagc ccatgtatat atttcttgc atgtttcag gcattgacat cctcatctcc</p> <p>acctcatcca tgcacaaaat gctggccatc ttctggttca attccactac catccagttt</p> <p>gatgcttgc tgctacagat ttttgccatc cactccttat ctggcatgga atccacagtg</p> <p>ctgctggcca tggcttttga ccgctatgtg gccatctgtc acccactgcg ccatgccaca</p> <p>gtacttacgt tgctctgtgt caccaaaatt ggtgtggctg ctgtggtgctg gggggctgca</p> <p>ctgatggcac ccttctctgt ctctatcaag cagctgccct tctgcccct caatatcctt</p> <p>tccattctct actgcctaca ccaagatgtc atgaagctgg cctgtgatga tatccgggtc</p> <p>aatgtcgtct atggccttat cgtcatcatc tccgccattg gccctggactc acttctcatc</p> <p>tcttctcat atctgcttat tcttaagact gtgttgggtc tgacacgtga agccaggcc</p> <p>aaggcatttg gcaactgctg ctctcatgtg tgtgtgtgt tcatattcta tgtaccttct</p> <p>attggattgt ccatggtgca tgccttttagc aagcgcgctg acttccgct gcccgctc</p> <p>ttggccaata tctatctgct ggttctctct gtgtcacaac caattgtcta tggagtgaag</p> <p>acaaaggaga ttgcacagcg catccttcca ctttccatg tggccacaca cgcttcagag</p> <p>ccctaggtgt cagtgatcaa acttcttttc cattcagagt cctctgattc agattttaat</p>	<p>LYSFWFHYP RTRWLVALSW AASLGALPM AVIMGQKHEL</p> <p>VLVSFVLPLA LTAFLNGVTV SHLLALCSQV</p> <p>TFIQGGQVSL VRHKDVRIR SLQRSVQLR</p> <p>PLNYFYHYFV MVTNLFYVS SAVTPLLYNA</p> <p>QSPTLMDTAS GFQDPPEPTR</p> <p>gcacctctc tggaggaaga ctggacaaag A</p> <p>cctctacctg cctggtgctg gtcacagttc</p> <p>aatgaatcca gtgtacata ctctaccta</p> <p>ttctggttgg ccttcccat gtgctccctc</p> <p>atcatctaca ttgtgcggac tgagcacagc</p> <p>atgtttcag gcattgacat cctcatctcc</p> <p>ttctggttca attccactac catccagttt</p> <p>cactccttat ctggcatgga atccacagtg</p> <p>gccatctgtc acccactgcg ccatgccaca</p> <p>ggtgtggctg ctgtggtgctg gggggctgca</p> <p>cagctgccct tctgcccct caatatcctt</p> <p>atgaagctgg cctgtgatga tatccgggtc</p> <p>tccgccattg gccctggactc acttctcatc</p> <p>gtgttgggtc tgacacgtga agccaggcc</p> <p>tgtgtgtgt tcatattcta tgtaccttct</p> <p>agcgcgctg acttccgct gcccgctc</p> <p>caattgtcta tggagtgaag</p> <p>tggccacaca cgcttcagag</p> <p>cattcagagt cctctgattc agattttaat</p>	Homo sapiens

434	53440	G Protein- Coupled Receptor LS53440	CAC38935.1	gttaacattt tggaagacag tattcagaaa aaaaatttcc ttaataaaaa atacaactca gacccctcaa atatgaaact ggttgggaaa tctccatttt tccaatatta tttctctctt tggtttcttg ctacataata ttattaatac cctgactagg ttgtggttgg agggttatta cttttcattt taccatgcag tccaaatcta aactgcttct ctgatggtt tacagcattc tgagataaga atggtacatc tagagacat ttgccaaaag cctaagcacg gcaaaggaaa ataaacacag aatataataa aatgagataa tctagcttaa aactataact tccctcttcag aactcccaac cacattggat ctcagaaaaa tctgtcttc aaaaatgact ctacagagaa gaaataattt ttctcttgga cactagcact taagggaag attggaagta aagccttgaa aagagtacat ttacctacgt taatgaaagt tgacacactg ttctgagagt ttccacagca tatggacctt gtttttctta ttttaatttc ttatcaacc ttttaattagg caaagatat attagtaccc tcaattgtgc catgggaaaa ttgatgttca gtgggatca gtgaattaaa tggtgtcata caagtataaa aattaaaaa aaaaagact tcatgcccc tctcatatga tgtggaagaa ctgttagaga gaccaacagg gtatgggtt agagatttcc agagtcttac attttctaga ggaggtattt aatttcttct cactcatcca gtgtgttatt taggaatttc ctggcaacag aactcatggc ttttaattcca ctagtattg ctattgttcc tgggtccaatt gccaatattc tgtgtcttgg aagaagtgt ttctaggttc accattatgg aagattctta ttcagaaagt ctgcataggc cttatagcaa gttatttatt tttaaaaatt ccatagggtga ttctgatagg cagtgaaggt agggagccac cagttatgat gggaaagtatg gaatggcagg tcttgaagat aacattggcc ttttgagtgt gactcgtagc tggaaagtga gggaaatcttc aggaccatgc tttatttggg gctttgtgca ttattgcttc tgagggtgta ttaccaaggg gcaatctgac ttaggcattg gaatcaggca ttttctgctc caacagtgtt aaccaagaaa ttaatagggt tcatcttcaa caggatatga caacagtgtt aaccaagaaa ctcaaatattc aaatactaaa acatgtgata atatatgtg atatatgtg tttctttttc aatcctcagg ttccctgata tggattccta taacatgctt tcatccctt ttgtaattga tatcatattt ggaaatgctt atttaatact tgtatttgc tctggactgt aagcccatga gggcactgtt tattattgaa tgcattctct gttcatcatt gactgctctt tgcctcatcat tgaatcccc agcaaatgac ctagaacata atagtgttca tgcctgacac cgtttatttt tcatcaaac tgattccctc tgcctgaac acatagccag gcaattttcc agccttcttt gatttgggtga ttattaaatt ctggccatta ctccaatgt gagtggaaat gacatgtgca atttctatac ctggctcata aaacctccc atgtgcagcc ttcatgttg acatataatg tgacttggga agctatgtgt tacacagagt aaatcacag aagcctggat ttctgaaaaa actgtgcaga gccaaacctc tgtcatttgc aactcccat tgtatttga ctaggcagtt ggataagtga aaaaaaagt actatttgt caagaaaaa aaaaaaaa aaaaaaaa aaaaaaaaa aaaaaa	MMVDPNGNES SATYFILIGL PGLEEAQFWL APPLCSLYLI AVLNILTIY IVRTEHSLHE P PMYIFLCMLS GIDILISTSS MPKMLAIFWF NSTTIQFDAC LLQMFHLSL SGMESTVILA MAFDRYVAIC HPLRHATVLT LPRVTKIGVA AVVRGAALMA PLPVFIKQLP FCRSNILSHS YCLHQDVMKL ACDDIRNVV YGLVIVISAI GLDSSLISFS YLLIKTVLG LTREAQAKAF GTCVSHVCAV FIFVPPFGL SMVHRFSKRR DSPLPVILAN IYLLVPPVIN PIVYGVKTK IRQRIILRLFH VATHASEP	Homo sapiens
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Homo sapiens

436	54053	Gaba (b) Receptor 2	NP_005449.1	ctgtaa	gaaaagacca cctacattaa acagaaccac taccaagagc tcaatgacat cctcaacctg gaaaacttca ctgagagcac agatggagga aaggccattt taaaaaatca cctcgatcaa aatccccagc tacagtggaa cacaacagag ccctctcgaa catgcaagaa tcctatagaa gatataaact ctcagaaca catccagcgt cggctgtccc tcagctccc catcctccac cacgctacc tccatccat cggagcggtg gacgcagct gtgtcagccc ctgctcagc ccacccgcca gccccgcca cagacatgtg ccaccctct tccgagtcac gtctcgggc ctgtaa	Homo sapiens
437	55728	ETL protein	NM_022159		MASPRRSGQP GRPPPPPPPP ARLLLLLLP LLLPLAPGAW GWARGAPRPP PSSPPLSIMG P IMPLTKEVAK GSGRGLVLA VELAIQIRN ESLLRPYFLD LRLYTECDN AKGLKAFYDA IKYGNHLMV FGGVCPSTVS IIAESLQWN LVQLSFAATT PVLADKKYP YFFRTVPSDN AVNPAILKLL KHYQWKRVT LTQDVQRESE VRNDLTGVLY GEDIEISDTE SFSNDPCTSV KKLKGNDVRI ILGQFDQNM AKVFCAYEE NMYGSKYQWI IPGWYEPSWW EQVHTEANSS RCLRNNLLAA MEGYIGVDFE PLSSQIKTI SGKTPQYER EYNNKRSVG PSKFHGYAYD GIWVIKTLQ RAMETLHASS RHQRIQDFNY TDHTLGRILL NAMNETNFFG VTGOVVFNRG ERMGTIKFTQ FQDSREVKVG EYNAVADTLE IINDTIRFQG SEPPKDKTII LEQLRKISLP LYSILSALT I LGMIMASAFI FFNIXNRNQK LKIMSSPYMN NLIILGMLS YASIFLFLGLD GSFVSEKTFE TLCTVRTWIL TVGYTAFGA MFAKTWRVHA IFKNVMMKKK IIKDQKLLVI VGGMLLIDLC ILICWQAVDP LRRTVEKYSM EPDPAGRDIS IRLEHCEN THMTIWLIV YAYKGLMLF GCFLAWETRN VSIPALNDSK YIGMSVYVNG IMCIIGAASV FLTRDQPNVQ FCIVALVIF CSTITLCLVF VPKLITLFTN PDAATQNRRE QFTQNKED SKTSTSVTSV NQASTSRLEG LQSENHRLRM KITELDKLE EVMTQNDTP EKTYYIKQNH YQELNDILNL GNFTSTDDG KAILKNHLDQ NPQLQWNTTE PSRTCKDPIE DINSPEHIQR RLSLQLPLH HAYLPSIGGV DASCVSPCVS PTASPRHRHV PPSFRVMVSG L gtgaaattta aactccagtc ctgtggcga aatgctaatt gcaataacac agaaggaggt A tattattgta tgtgtgtacc tggcttcaga tccagcagta accaagacag gttatcact aatgatggaa ccgtctgtat agaaaatgtg aatgcaaaact gccatttaga taatgtctgt atagctgcaa atattaataa aactttaaca aaatcagat ccataaaga acctgtggct ttgctacaag aagctctatg aaattctgtg acagatcttt caccaacaga tataattaca tatatagaaa tattagctga atcatcttca ttaactaggt acaagaacaa cactatctca gccaaggaca ccttttctaa ctcaactctt actgaatttg taaaaaccgt gaataatttt gttcaagggt atacatttgt agtttggac agttatctg tgaatcatag gagaacacat ctacaaaaac tcatgcacac tgttgacaa gctactttta ggatatccca gagcttccaa aagaccacag agtttgatac aaattcaacg gatatagtc tcaaaagttt ctttttgat tcataataca tgaacatat tcatctctcat atgaatatgg atggagacta cataaatata tttccaaaaga gaaaagctgc atagattca aatggcaatg ttgcagttgc attttatat tataagagta ttgtctctt gctttcatca tctgacaact tcttattgaa acctcaaat tatgataatt ctgaagagga ggaagagtc atactctcag taatttcagt ctcaatgagc tcaaacccac ccacattata tgaacttgaa aataataac ttacattag tcacgaaag gtcacagata ggtataggag tctatgtgca ttttgaatt actcacctga taccatgaat ggcagctggt cttcagagg cttgtgagctg acatactcaa atgagaccca cacctcagc cgctgaatc acctgacaca ttttgaatt ttgatgtcct ctggtccttc catgtgtatt	Homo sapiens

438	55728	ETL protein	NP_071442.1	<p> aaagattata atattcttac aaggatcaact caactaggaa taattatttc actgatttgt cttgccatat gcatcttttac cttctgggtc ttcaagtgaac ttcaagcac caggacaaca attcacaaaa atcttttgctg tagcctattt cttgctgaac ttgtttttct tgttgggac aatacaaaaa ctaataagct cttctgttca atcattgccc gactgctaca ctactctttt ttagctgctt ttgcatggat ttgcatggaa ggcatacatc tctatctcat tgttggggt gtcatctaca acaagggtatt ttgcaacaag aatttttata tctttggcta tctaagccca gccgtggtag ttggattttc ggcagcacta gatacacagat attatggcac aaccaaagta tgttggctta gcaccgaaaa caactttatt tggagtttta taggaccagc atgcctaact attcttggtta atctcttggc ttttggagtc atcatataca aagtttttcg tcaactgca gggttgaac cagaagttag ttgctttgag aacataaggt cttgtgcaag aggagccctc gctcttctgt tcttctcgg caccacctgg atctttgggg ttctccatgt tgtgcacgca tcagtgggta cagcttacct cttcacagtc agcaatgctt tccaggggat gttcattttt ttattcctgt gtgttttata tagaagatt caagaagaat attacagatt gttcaaaaat gtccccctgt gttttggatg tttaaggtaa acatagagaa tgggtggataa ttacaactgc acaaaaataa aaattccaag ctgtggatga ccaatgtata aaaatgactc atcaaatatt ccaattatta actactagac aaaaagtatt ttaaatcagt tttctgttt atgctatagg aactgtagat aataaggtaa aattatgtat catatagata tactatgttt tctatgtga aatagtctg tcaaaaatag tattgcagat atttggaaag taattgggtt ctcaggagtg atatcactgc acccaaggaa agattttctt tctaacacga gaagtatatg aatgtcttga aggaaaccac tggcttgata tttctgtgac tctgtgtgac tttgaaacta gtccccctacc acctcggtaa tgagctccat tacagaaagt ggaacataag agaataaggg ggcagaatat caaacagtga aaagggaatg ataagatgta ttttgaatga actgtttttt ctgtagacta gctgagaaat tgttgacata aaataaagaa ttgaagaaac acatttttacc attttgtgaa ttgttctgaa cttaaatgtc cactaaaaa acttagactt ctgtttgcta aatctgtttc tttttctaatt attctaaaa </p>	<p> Homo sapiens </p>
439	56923	Muscarinic acetylcholine Receptor M3	NM_000740	<p> atgaccttgc acaataacag tacaacctcg cctttgtttc caaacatcag ctctctctgg A atacacagcc cctccgatgc agggctgccc ccgggaacccg tcaactcattt cggcagctac aatgtttctc gagcagctgg caatttctcc tctccagacg taccaccga tgaccctctg ggaggtcata ccgtctggca agtggcttcc atcgctttct taacggggcat cctggccttg gtgaccatca tcggcaacat cctggttaatt gtgtcattta aggtcaacaa gcagctgaag CFGCLR </p>	<p> Homo sapiens </p>

440	56923	Muscarinic acetylcholin e Receptor M3	NP_000731.1	acggtcaaca actacttcct cttaagcctg gacctgtgac atctgattat cggggtcatt tcaatgaatc tgtttacgac ctacatcac atgaatcgat gggccttagg gaacttggcc tgtgacctct ggcttgccat tgactacgta gccagcaatg cctctgttat gaacttcttg gtcatcagct ttgacagata cttttccatc acgaggccgc tcaactgaccg agccaaacga acaacaaaga gagcgggtgt gatgacgtt gttggaaga gaaactgcctt tgcctttgg gtcttcattc agttctctcg tgagccacc attacttttg gcacagccat cgctgccttt tatatgcctg tcaccattat gactatttta tcttgagga tctataagga aactgaaaag cgtaccaaag agcttgcttg cctgcaagcc tctgggacag agcagagagac agaaaacttt gtccacccca cgggcagttc tcgaagctgc agcagttacg aactcaaca gcaagcagtg aaacgctcca acaggaggaa gtatggccgc tggcacttct ggttcaaac caagagctgg aaacccagct ccgagcagat ggaccaagac cacagcagca gtgacagttg gaacaacaat gatgctgctg cctccctgga gaactccgac tctccgagc agggagacat tggctccgag acgagagcca tctactccat cgtgctcaag ctccgggtc acagaccat cctcaactcc accaagttac cctcatcgga caactcgag gtgcctgagc agggagctggg gatggtggac ttggagagga aagccgacaa gctgcagcc cagaagagcg tggacgatgg aggcagtttt ccaaaagct tctcaagct tcccatccag cttagagtcag ccgtggacac agctaagact tctgacgtca actcctcagt gggtaagagc acggccactc taccctgtgc ctcaaggaa gccactctgg ccaagaggtt tgctctgaag accagaagtc agatcaataa gcggaacagg atgtccctgg tcaaggagaa gaaagcggcc cagaccctca gtgcgatctt gcttgccctc atcatcactt ggaccccata caacatcatg gttctgtgta acacttttg tgacagctgc ataccaaaaa ccttttggaa tctgggctac tggctgtgtg acatcaacag caccgtgaac cccggtgctg atgctctgtg caacaaaaa ttcagaacca cttcaagat gctgctgctg tgccagtggtg acaaaaaaaa gaggcgcaag cagcagtagc agcagagaca gtccggtcatt tttcacaagc gcgcacccga gcaggccttg tag	Homo sapiens
441	57180	Leukotriene B4 Receptor BLTR2	NM_019839	tgccagtggtg acaaaaaaaa gaggcgcaag cagcagtagc agcagagaca gtccggtcatt tttcacaagc gcgcacccga gcaggccttg tag MTLHNNSTTS PLEPNISSW IHSPSDAGLP PGTVTHFGSY NVSRAAGNFS SPDGTTDDPL P GGHTVWQVVF IAFLTGILAL VTIIIGNILVI VSFKNKQLK TVNNYFLLSL ACADLIIGVI SMNLFTTYII MNRWALGNLA CDLWLAIQVYV ASNASVMNLL VISFDYFESI TRPLTYRAKR TTKRAGVMIG LAWVISFVLW APAILFWQYF VGRKTVPPGE CFIQFLSEPT ITFGTAIAAF YMPVTIMTIL YWRIYKETEK RTKELAGLQA SGTEAETENF VHTGSSRSC SSYELQQSM KRSNRRKYGR CHFVFTTKSW KPSSEQMDQD HSSSDSWNNN DAAASLENSA SDEEDIGSE TRAIYSIVLK LPHSTILNS TKLPSSDNLQ VPEEELGMVD LERKADKLQA QKSVDGGSF PKSFSKLPIQ LESAVDTAKT SDVNSSVGKS TATLPLSFKE ATLAKRFALK TRSQITKRKR MSLVREKKAA QTLSAILLAF IITWTPYNIM VLNVTFCDSI IPKTFWNLGY WLCYINSTVN PVCYALCNKT FRTFKMLLL CQCDKKRKRK QYQYQYQSVI FHKRAPEQAL gaaactggcc ctggccctga accaaatacc ttgaacccctc gtaaacctcca taccctgacc A cccttggtttt ggatataccc aggtagaaca actctctctc actgtctgtt gtgaggatac gctgtagccc actcatataag tacattctcc taataaatgc ttggactga tcacctgccc agtcttttgt cttgggcaat ctatactttt ctcagaggtt ccaaggcct actgaaggga cttaacatac tcttaatggc ttctctctct cttgttttac cttatgcct cacttctga gttaacctcc caaatacagg atcacctgta ccaaggcct tagctcaaga atacaggatc	Homo sapiens

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443	73584	Cadherin EGF LAG Seven- Pass G-Type Receptor 1 (CELSR1/Flam ingo)	NM_014246	atggcgccgc ctgcggcgga gccttcgcc ccgcgggagc ggcgcggggc ctgagccgcc tgcgggaaccg gcgcgcagc cgccccaggc ctgctgtgc gagcccgcca aacttgcccc gggagccctga ggcaccctca agctattaca gccacggggc ctcaggggtga gtcttgggtca cgctgtcggg gactcgccca cagctcaacg gccaggtacc gccacgggcca gagcagaact gtgcaggcca gggaacgtgg cccttggaatt cgccccccgc aacgagcccta ggctaccccc cactatcgcc aatcctgccc gtgtgtgccg gaccacggct	cgccgcgcgc tggggctgcg tcgggcccgg tgctggacgt gcccgcgtcc gcctgcgggc gtgcgcggct atgcgcgct ccgcgtgtcc tgtgcgcct ccggggggac aagcccgggc agtttcgat tctccagct tgtaggggct ccgtgagcac aagcgttga aagacacca agaacctgga tcaacggcca agagctctgg agctcttggt cccggtacat ccgtgtacat acgtgttcca cggaccggga ccggccagtt tcgaggatgt tcatcaattc tctttgtgag tggtgcacat tgggtgacac ccaccttga agctggaccg	cgctgtgcc tgggagccgc tggtacccgc cggttgggcg gagacgtcg ccgcagtcg gcttcggct ctctgcctc accacttac atctgcctc cgccgtccc gctggcgcg gcctccgc tgccatccc cgccggccc gagcgggcac tggttgagaa aggcgagga gctactccg agaccaagga cgcccgct agcagtcgga cgccacac caggtcttcg tgctggaccg gcaatccggg acaactaccc tcaacacggc ttcactacag ggatcctgga tgcgtgagcg ttaaggccca aggtgctgga tgctggagaa tgctggagaa cgccggcgtg ggcgagagaa tgggccctaag acagctcccg tggtgatcaca gcttcggggg ccatcacggt gctggacgtg	A Homo sapiens		

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445	74514	5-HT5A Receptor	NM_024012	<p>LTEQTLKGRL REKLADCEQS PTSSRTSSLG SGGPDCAITV KSPGREPGRD HINGVAMNVR TGSQAQDGSD SEKP atggattttac cagtgaacct aacctctttt tcctctcca cccctctccc ttggagacc A aaccacagcc tcggcaaga cgactgcgc ccagctgcg cctgtctctc ggtcttcgga gtgcttattc tcaccttgtt ggctttcttg gtgcggcga cgttgcctg gaacctgctg gtgctggcga ccactctccg tgtacgcacc tcccaccgc tgcccacaa cctggtggca tccatggccg tctcgatgt cctggtggcc gcctgtgta tgcctgtgag cctggtgcat gagctgtccg ggcgcgcgtg gcagctaggt cggaggtgt gccagctttg gacgctgtc gacgtgcttt gctgcacggc cagcatcttg aactgacgg ccatagcctt ggacgcctac tgggtccatca cgcgccacat ggaatacacg ctccgcacc gcaagtgcgt ctccaaactc atgatcgccg tcacctgggc actctccgt gtcatctctc tggccccgt gctttttggc tggggagaga cgtactctga gggcagcgag gactgccag taagccgca gccctctac gccgtgttct ccaccgtag cgcctctac ctgcccctc gtgtgtgtc ctctgtgtac tggaagatct acaaggctgc caagtccgc tctggctcca ggaagaccaa tagcgtctca cccatatccg aagctgtgga ggtgaaggac gtggcctcca agccccagat ggtgttcacg gtccgcccag ccacogtcac cttccagcca gaaggggaca cgtggcggga gcagaaggag cagcgggccg cctcatggt gggcatctc atggcgtgt tctgtctctg ctggatcccc ttcttttcca cggagctcat cagtccttc ctactccaac tcttcttta acccctgat ctatacggct agcatcttc tgtggcttg ctactccaac cgccttcaag aactctttt ctaggcaaca ctga ttcaacaaga actacaacag cgccttcaag aactctttt ctaggcaaca ctga</p>	Homo sapiens
446	74514	5-HT5A Receptor	NP_076917.1	<p>MDLPVNLTSF SLSTPSPLET NHSLGKDDLRL ALVMPLSLVH ELSGRRWQLG VRLCQLWIAC P VLATILRVRT FHRVPHNLVA SMAVSDVLA LRTRKCVSNV MIALTWALSA VISLAPLIFG DVLCTASISL NVTALIDRY WSITRHEMYT LPLCVLFVY WKIYKAKFR VGSRTKNSVS WGETYSEGE ECQVSREPSY AVFSTVGAFY EGDTWREQKE QRAALMVGIL IGVFVLCWIP PISEAVEVKD SAKQPQMVFT VRHATVTFQP SFFNPLIYTA FNKNYNSAFK NFFSRQH FFLTELISPL CSCDIPAIWK SIFLWLGYSN</p>	Homo sapiens
447	81765	Thromboxane A2 Receptor	NM_001060	<p>gtaatgcaga gataataaaa cttcttaggt ccataagctc tataataatt taataacctta A aacatggtat acaaatctct ccaaacccaa taacataatt atagtttcaa aaagtctccc aaactttcaa gtagatttt attgctttga tgatggctt taatatgaa aagtcttgcc tgtgaaggcc aatccttttc cgtggactg ggaatctag aaatacagaa atgtgcccag gggttcattc cctaataac catcattcac atttctcaac ctccataata accagccacc atgtgagaag gatccacagt tactgtttat gactataatt aactagtacc tgggactggt cagtggagtt ggttgcacc tgatgctaag gatgtcaaa ttgtctcggc ctctgttccc agccagtaag taattccctg gcccgggcc ataccctca atcttggtca gctgattatg acaggcagac agcacagtaa ataacatat atattaagaa aacccaaagc atatgtatca atggtatata cccaacagca tcctaggaat ggagagtctg tagcaaggcc ctccaatgtg aaggtaaca cagtcactgt gatgcgtgta ttccatttt gtaagcatg atctctggtg gtcattttta tcttctaac ttattggaaa agtctcctgt ttggggggcc cgccccgtgt cacagccaga ctgactcagt ttccctggga ggtcccgctg gagccgtcc ttccccccc tctgcccccc cccagccctc gccccacct cggcgcccg acatctgctt gctcagctcc agacggcgcc cggacccccg ggcgcgggat ccagccaggt gggagccccg cagatgaggt</p>	Homo sapiens

ctctgaaggt gtgctgaac cagtccagc ctgcccctgtc tgcagcatcg gctgatggg
 gtggtgactg atccctcagg gctccggagc catgtggccc aacggcagtt ccttggggcc
 ctgtttccgg ccacaaaaca ttaccctgga ggagagacgg ctgctgcct cgccttggtt
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 gctctcacc gacttctctg gctgctggc gactgctac atcgtggtgt ccacgacgc
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 gcgaacccg cctgctatga gcccgcggc gcagctgct cgcacacgg agaaggagct
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 gtccctccag cccagctca cgcagctc cgggtgctg taggaagtgg acagagcgc
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 gattcagggg ctgggggtgc tggatggaca gtgggcatca gcagcaggtt tttgggtga
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 aggaaggga tgcagacatt ggaagaggt cctgctgct tattttttt tttagacgga
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 agccactgc cccggccttg catgctctt gacctgaat ttgacctact tgcggggta
 cagttgcttc ctttgaacc tcccaacagg aagctctgt ccagaaagg tgaatgtga
 aacgggggca ccccttttc tgcacaaat atactctgc cttggttt at
 NP_001051.1 MWPNGSSSLGP CFPRTNITL ERRLIASPFW AAFSCVVGLA SNLLALSILA GARQGGSHTR P Homo sapiens
 SSFLTFLCGL VITDFLGLLV TGTIVVSQHA ALFEHVAVDV GCRICRFMGV VMIFGLSPL
 LLGAAMASER YLIGITRPFSS PAVASQRRW ATVGLVWAAA LALGLPLLG VGRYTVQPG
 SWCFLTLGAE SGDVAFLGLF SMLGSLVGL SFLNTVSVA TLCHVYHGQE AAQQRPRDSE
 VEMMAQLLGI MVASVCWLP LLVFIQTVL RNPPAMSPAG QLSRTTEKEL LIYLRVATWN
 QILDPWVYIL FRAVLRLRQ PRLSTRPRL SLQPLTQRS GLQ

449	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	98519	atggagtcct caggcaaccc agagagcacc agagagcacc acctttttttt actatgacct tcagagccag A	Homo sapiens
				ccgtgtgaga accaggcctg ggtctttgtt accctcgcca ccactgtcct gtactgcctg	
				gtgtttctcc tcagctagt gggcaacagc ctggtcctgt gggctcctgt gaagtatgag	
				agcctggagt cctcaacaa catcttcac tcacacctgt gctctcaga cctgggtgtc	
				gctgtctgtg tgcctgtgtg gatctccca taccacctgg gctgggtgtc gggagacttc	
				ctctgcaaac tctcaatat gatcttctc accagcctt acagcagcat ctcttctctg	
				accatcatga ccaccaccg ctacctctcg gtatgagcc cctctccac cctgcgcgc	
				ccaccctcc gctgcgggt gctgtgacc atggtgtgt ggttagccag catcctgtcc	
				tcacatctcg accatcttt ccacaagtgt ctttcttcgg gctgtgatta ttccgaactc	
				acgtggtacc tcacctccgt ctaccagcac aacctcttct tctgtgtgc cctggggatt	
				atcctgttct gctacgtgga gatcctcagg accctgttcc gctcagctc caagcggcgc	
				caccgcacgg tcaagctcat cttcgccatc gtggtggcct acttctcag ctgggggtccc	
				tacaaacttca cctgttttct gcagacgtctg ttctggaccc agatcatccg gagctgcgag	
				gccaaaacagc agctagaata cgcctgtctc atctgcccga accctgcctt ctcccactgc	
				tgctttaacc cgggtctcta tgtcttcgtg ggggtcaagt tccgcacaca cctgaaacat	
				gtctccggc agttctgtgt ctgccggctg caggcaccca gccagcctc gatccccac	
				tcacctgggt ccttcgccta tgaggcgcc tcttctact ga	
450	98519	Chemokine (C NP_005274.1 motif) XC Receptor 1 (CCXCR1)	98519	MESSGNPEST TFFYYDLQSQ PCENQAWVFA TLATTVLYCL VFLLSILVNS LVLWLVKYE P	Homo sapiens
				SLESNTNIFI LNLCLSDLVF ACLLPVWISP YHGMWVLGDF LCKLINMIFS ISLYSSIFFL	
				TIMTHRYLS VVSFLSLRV PTLRCRLVT MAVWVASILS SILDTIFHKV LSSGCDYSEL	
				TWYLTSVYQH NLFLLSLGI ILFCYVEILR TLFERSKRRR HRTVKLIFAI VWAYFLSWGP	
				YNFTLFLOTL FRTQIIRSC EAKQLEYALL ICRNLAFSHC CFNPVLYVFEV GVKFRTLKH	
				VLRFQWFCRL QAPSPASIPH SPGAFAYEGA SFY	
451	130108	G Protein- Coupled Receptor GPR75	130108	gcgatggcga tgaatcctct agtcctgcat catccagagc ggcaggcgag ctgggggtccg A	Homo sapiens
				gactgcgaga tggaggaggg gcgcgtgctg gcacccggca ggccttatctg tcttgggcct	
				cttttgtcac atattgtca tctgtgagct gaggccctga ctcaatgagt atttttgggg	
				agcagaagaa ggagacattt ctctccgaaa atgaactcaa caggccacct tcaggatgcc	
				cccaatgcc cctcgtctca tgtgcctcac tcacaggaa gaaacagcac ctctctccag	
				gagggtcttc agtatctcat ccacacagcc accttggta cctgtacttt tctactggcg	
				gtcatcttct gcttgggttc ctatggcaac ttcatgtct tctgtctctt ctctgatcca	
				gccttcagga aattcagaac caactttgat ttcatgatcc tgaacctgtc ctctgtgac	
				ctcttcattt gtggagtgc agcccccatg ttcacctttg tgttattctt cagctcagcc	
				agtagtatcc cggatgcttt ctgcttcaat ttccatctca ccaagtccagg ctctcatc	
				atgtctctga agacagtggc agtgatcgcc ctgcaccggc tccggatgggt gttggggaaa	
				cagcctaate gcacggcctc ctttccctgc accgtactcc tcacctgtct tctctgggcc	
				accagtttca ccttggccac cttgggtacc ttgaaaacca gcaagtccca cctctgtctt	
				cccatgtcca gtttgattgc tggaaaaggg aaagccattt tgtctctcta tgtgtctgac	
				ttcaccttct gtgtgtgtgt ggtctctgtc ttatataca tgattgtcta gacctgcgg	
				aagaacgctc aagtcagaaa gtgccccctt gtaatacag tcatgtcttc cagaccacag	
				cctttcatgg gggctccctg gcaggagggt ggagatccca tccagtgtgc catgcccgt	
				ctgtatagga accagaatta caacaaactg cagcacgttc agacctgtg atataccaag	

452	130108 G Protein-Coupled Receptor GPR75	NP_006785.1	<p> agtcccaacc aactgggtcac cctgcagca agccgactcc agctcgtatc agccatcaac ctctccactg ccaaggattc caaagccgtg gtcacctgtg tgatcattgt gctgtcagtc ctggtgtgct gtcttcact ggggatttcc ttggtacagg tgggtctctc cagcaatggg agcttcattc ttaccagtt tgaattggtt gcagggtcga gaggaaagt gctctgggtgc ttaaacctt ttatatattc tcggaacagt tcggaacaaa agactcgact tcgagcccatg ctccaataca taggcctggg tttttctgc caacagaaac aaatcctccc atcatgaaac aaactctgcc gaaaaaggga acctcgaaagt acagaagaa tttgtggacc aggcctgtgg cccaagtcat tacatgttat ctccaaagcc acagaagaa tctgtggac atcaacactg tggtcagagc tcaaaagaaa gtatggtgag tcccaagatc cttactaca gcatctataa cagcagccct agctcgacc ccataaacac tcggattgaa atgtaactta cagccagtaa actcttttg atttgccaat tcccaggagg agagcagccc atgtaactta tcacaccact aatgacttag tgcaggaata tgacagcact tcatatattg ccatgcatta cccctccgt taaagtcagt gaggctatag gatcttatgt tcagccaagc agattccagt agtaatggac ttattcttaa cttgagatca gtggcggatc aaacagttt tgtttctgat gaaaagtgg cagttatggt tttctttcat ctgatgtgtc aaaacctaca agattcaact gaaagtggg gattttggt gacatcttaa gattgatgt gaaagtttta agtatctgtt gatttgcctt gtagttgtt gacatcttaa gattgatgt gaaagtttta gattttttac cctg </p>	Homo sapiens
453	133117 G Protein-Coupled Receptor RAIG1	NM_003979	<p> MNSTGHLQDA PNATSLHVPH SQEGNSTSLQ EGLQDLIHTA TLVTCTFLLA VIFCLGSYGN P FIVELSFDDP APRKFTNFD FMILNLSFCD LFICGVTPM FTFVLFSSA SSIPDAFCFT FHLTSSGFII MSILKTAVIA LHRLRMVLGK QPNRTASFPC TVLTLILWA TSFTLATLAT LKTSKSHLCL PMSSLIAGVG KAILSXYVD FTRVAVNSV SYIMIAQTLR KNAQVRKCPP VITVDASRPQ PMGVPVQGG GDPICAMPA LYRNQYGNKL QHVQTRGYTK SPNQLVTPAA SRLQLVSAIN LSTAKDSKAV VTCVILVSV LVCCPLGIS LVQVVLSSNG SFILYQFELF GFTLIFFKSG LNPFIYSRNS AGLRRKVLWC LQYIGLGFCC CKQKTRLRAM GKGNLEVNRN KSSHETNSA YMLSPKPQKK FVDQACGSPH SKESMVSPKI SAGHQCQGS SSTPINTRIE PYYSIYNSSP SQEESSPCNL QPVNSFGFAN SYIAMHYHTT NDLVQEYDST SAKQIPVPSV ataacagcat gaagtgcctg ggaactgaa tagcgtgtc ctctccctcg accctcccc A tccttgctcc tctgctcacc cctcgctcgt tccctccctc cggcgagggc cgcctttata acaactgctc agagtgcgag ggcgggatat cgtgtccaag tctccccag cactgaggag ctgcctgct gccctcttgc gcgcgggaag cagcaccaag ttcaaggcca acgccttggc actagggtcc agaattgcta caacagtccc tgatggttgc cgaatggcc tgaatccaa gtactacaga ctttgtgata agcctgaagc ttggggcatc gtctagaaa cgggtggccc agccggggtt gtgacctcgg tggccttcac gctcacttc ccgatcctcg tctgcaaggt gcaggactcc aacaggcga aaatgctgc tactcagttt ctctcctcc tgggtgtgtt gggcatcttt ggctcacct tcgcttcac catcgagctg gacgggagca cagggccac acgctcttc ctctttggga tctcttttc catctgttc tctgctcgc tggctcatgc tgtcagtcctg accaagctcg tccgggggag gaagccctt tccctgttgg tgattctggg tctggccgtg ggcttcagcc tagtccagga tgtatcgtt attgaatata ttgtcctgac catgaatagg accaagctca atgtctttc tgagctttcc gctcctcgtc gcaatgaaga ctttgtcctc ctgctcacct acgtcctctt cttagtgagc gtagccttcc tcatgtcctc cttcaccttc tgtgttctct tcacgggctg gaagagacat gggggccaca tctacctcac </p>	Homo sapiens

Accession	Gene	Protein	Sequence	Species
454	133117 G Protein-Coupled Receptor RAIG1	NP_003970.1	gatgtcctc tccattgcca tctgggtggc ctggatcacc ctgtctatgc ttctgactt tgaccgag tggtatgaca ccatctcag ctcgccttg gctgccaatg gctgggtgtt cctgttgct tatgttagtc ccgagtttg gctgtcaca aagcaacgaa acccatgga ttatcctgt gaggatgctt tctgtaaacc tcaactcgtg aagaagagct atggtgtgga gaacagagcc tacttcaag aggaatcac tcaagttt gaagagacag ggaacagct ctatgcccc tattccacac attttcagct gcagaaccag cctcccaaa aggaattctc catccacag gccacgctt ggcgagccc ttacaaagac tatgaagtaa agaaagaggg cagctaaac tgctctgaag agtgggacaa atgcagccgg gcggcagatc tagcgggagc tcaaaaggat gtggcgaaa tcttgagtct tctgagaaa ctgtacaaga cactacggga acagtttgc tccctccag cctcaaccac aattcttcca tgtggtggct gatgtgggt agtaagactc cagttcttag aggcgtgta gtatttttt ttttttgtct catcctttg atactcttt taagtgggag tctcaggcaa ctcaagttta gacccttact ctttttgtt gtttttgaa acaggatctt gctctgtcac caggcttga gtgcagtgtt gogatcacag ccagtgca cctcgaccac ctgtgttcaa gcaatctcc ccatctccat tcccaagtg ctgggatgac agcgtgagc cacagctccc agcctaggcc cttaattctt ctgtatttt ccatggacta aaggtctgt catctgagct cagctgggt cacacagctc tagggcctg ctcctctaac tcacagtggg ttttgtgagg ctctgtggc cagagcagac ctgcatact gagcaaaaat agcaaaagcc tctctcagc caaccttct tgctgggta ggagaggcta aagatcaccc ttgtgtggac cccgctccc catctctcta gtgctgctc acattgggc tcagcagctc ccagaccca taaatattact cactctcta tcttggact tcttggact gtcccaaac ttgctgtcaa ttcgagata attcacaggt caccctctc ctacgctctg ccaggaattc tagatcattc ttcattcaaa ttctggggc ctccttgctc ggagaatttg tagatcattc ttcattcaaa ttctggggc tgatactct ctcatcttgc acccaacct ctgtaaaatag atttacgca tttaaggctg catctgtaa gtgggcatgg tctcctaag gagagtggt catgtataa taagtattc acctgagtat gcaataaaga tgtgtgggcc actcttcat ggtggtggca gcaaaaaaaa aaaaa RRKMLPTQFL FLGLVGIFG LTFAFIIGLD GSTGTRFEL FGILFSICFS CLLAHVSILT KLVRGRKPLS LLVILGLAVG FSLVQDVIAI EYIVLTMRNT NVNVESELSA PRNEDFVLL LTYVLFMAL TFLMSFTFC GSFTGWKRHG AHIVLTMLLS IAIWVAWITL LMLPDRRW DDTLSSAIA ANGWVFLAY VSPEFWLLTK QRNPMDYPVE DAFCKPQLVK KSYGVENRAY SQEITQGE ETGDTLYAPY STHFQLQNP PQKEFSIPRA HAMPSYKDY EVKKEGS atggggacct gtgacattgt gactgaagcc aatatctcat ctggccctga gagcaaac A acgggcatca cagcttctc catgcccagc tggcagctgg cactgtgggc accagctac ctggcccttg tgcgtgtgac cgtgacgggt aatgccatcg tcatctggat catcctggcc catcgaggga tgcgcacagt caccaactac ttcctcgtca atctggcgt ggtgacctc tgcatggctg ccttcaatgc cgccttcaac ttgtctatg ccagccacaa catctgttac ttggccctg ccttctgcta ctccagaac ctcttccca tcacagccat gtttgtcagc atctactcca tgaccgcat tgctgcgac aggtacatgg ccatcgtcca cccctccag cctaggctt cagctccag caccaaggcg gttattgctg gcatctggct ggtgctctc gcctggcct cccctcagt ctctactcc accgtacca tggaccaggg tgcaccaag	Homo sapiens
455	152198 Tachykinin Receptor 2	NM_001057		Homo sapiens

Homo
sapiens

P

152198 Tachykinin
Receptor 2 NP_001048.1

456

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MGTCDIVTEA NISSGPESNT TGITAFSMPs WQALWAPAY LALVLAVTG NAIVIIILA P
HRRMRTVTNY FIVNLALADL CMAAFNAFN FVYASHNIWY FGRFCYFQN LFPITAMFVS
IYSMTAIAAD RYMAIVHPFQ PRLSAPSTKA VIAGIWLVAL ALASPQCFYS TVTMDQGATK
CVWAWPEDSG KTLILLYHLV VIALIYFLPL AMFVAYSVI GLTLWRRVAVP GHQAHGANLR
HLQAKKKFVK TMVLVLTFA ICWLPYHLYF ILGSFQEDIV CHKFIQQVYL ALFWLAMSST
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tggttttact tcaagccaag gatgtgctt caatgggaca aggtggatg ctgtttacct
aaacaagaat aaatacctga cagttattga caaagatgca ttggaggag tatcacagtgg
accaagcttg ctggacgtgt ctcaaacag tgtcactgcc ctccatcca agggcctgga
gcacctgaag gaactgatag caagaaacac ctggactctt aagaaacttc cactttcctt
gagtttctt cactcacac gggctgacct ttcttaccac agcactgct gtgcttttaa
gaatcagaag aaatcagag gaatccttga gtcttgatg tgaatgaga gcagtatgca
gagcttgcg cagagaaaat ctgtgaatgc ccttccacc aggaatatga
agagaaatct ggtgacagca ttgttgggta caaggaaaag tccaaagtcc aggatactca
taacaacgct cattattacg tcttcttga agaacaagag gatgagatca ttggttttgg
ccaggagctc aaaaaccccc aggaagagac tctacaagct ttgacagcc attatgacta
caccatatgt ggggacagt agacatggt gtgtaccccc aagtccgatg agttcaaccc
gtgtgaagac ataattgggt acaagtctct gagaattgtg gtgtgggtctg ttagtctgct

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A

152201 Thyrotropin
Receptor NM_000369

457

458	152201	Thyrotropin Receptor	NP_000360.1	<p> ggctctctctg ggcaaatgtct ttgtctctgct tattctctc accagccact acaaaactgaa cgccccgcg tttctcatgt gcaacctggc ctttgcggat ctttgcggat ggatgtacct gctctctac gctctgtag acctctacac tcaactctgag tactacaacc atgccatgga ctggcagaca ggccctgggt gcaacacggc tggttcttc actgtctttg caagcgagtt atcggtgtat acgtgacgg tcaatccct ggagcgctgg tatgccatca ccttgcgcat gcgctggac cgggaagatcc gcctcagga cctcagtgcc atcatgggtg gggcctgggt ttgtgcttc cttctgccc tgcctcctt gggtggaata agtagctatg ccaaagtcag tatctgctg cccatggaca ccgagacccc tctgtctctg gcataatg ttttctctc gacgtcaac atagtgcct tgcctcctg ctgctgctgt catgtgaaga tctacatcac agtcgaaat ccgagtaga acccaggga caaagatacc aaaaatggca agaggatggc tgtgttgatc ttaccgact tcaatgcat ggcaccaatc tcaattctatg ctctgtcagc aattctgaac aagcctctca tcaactgttag caactccaaa atctgtctg tactcttca tccacttaac tctgtgcca atccattct ctatgctatt tccaacagg ccttccagag ggatgtgttc atctactca gcaagtttgg catctgtaaa cgcaggctc aggcataccg gggagcagg gtctctcaa agaacagcac tgatatctag gttcaaaagg ttaccacaga catgagcgag ggtctccaca acatgggaaga tgtctatgaa actcccatct aaccctaaag aagcaaggcc aaatctcaga agagtatatg caaacgggtt tgtaagttaa cactacacta ctcaaatgg taggggaact taaaaataa tagtttcttg aatatgcatt ccaatcccat </p>	Homo sapiens
459	152245	C-C Chemokine Receptor 2	NM_000648	<p> MRPADLLQLV LLLDLPRDLG GMGSSPPCE CHQEDFRVT CKDIQIPSL PPSTQTLKLI P ETHLRTIPSH AFSNLPNISR IYVSIDVTLQ QLESHSFYNL SKVTHIEIRN TRNLTYIDPD ALKELPLKLF LGIFNTGLKM FPDLTGVYST DIFFILEITD NPYMTSIPVN AFQGLCNETL TLKLYNNGFT SVQYAFNGT KLDAYLNKN KKLPLSLSLF HLTRADLSYP SHCCAFKNQK KIRGILESLM LPSKGLEHLK ELIARNTWTL KKLPLSLSLF HLTRADLSYP SHCCAFKNQK KIRGILESLM CNESMQSLR QRKSVNALNS PLHQEYENL GDSIVGYKEK SKFQDTHNNA HYYVFFEEQE DEIIGFQEL KNPQEEITQA FDSHYDTIC GDSIEDMVCTP KSDEFNCPED IMGYKFLRIV VWFVSLIALL GNVEVLILL TSHYKLNVR FILMNLAFAD FCMGMYLLLI ASVDLYTHSE YNNHAIDWQT GPGCNTAGFF TVFASELSVY TLTVTITLERW YAITFAMRLD RKIRLRHACA IMVGGWVCCF LIALPLVGI SSYAKVSICL PMDTETPLAL AYIVFVLTIN IVAFVIVCCC HVKIYITVRN PQYNPGDKDT KIARKMAVLI FTDVICMAPI SFYALSAILN KPLITVSNK ILLVLFYPLN SCANPFLYAI FTKAFQRDVF ILLSKFGICK RQAQAYRGQR VPPKNSTDIQ VQKVTHDMRQ GLHNMEDVYE LIENSHLTPK KQGQISEEYM QTVL caggactgcc tgagacaagc cacaagctga acagagaaag tggattgaac aaggacgcat A tccccagta catccacaac atgctgtcca catctcgctc tcggtttatc agaaatacca acgagagcgg tgaagaagtc accaccttt ttgattatga ttacggtgct cctgtcata aatttgacgt gaagcaaat ggggcccac tctcgctcc gctctactcg ctggtgttca tcttggttt tgtgggcaac atgctggtcg tccatcatct aataaactgc aaaaagctga agtgtgtgac tgacatttac ctgctcaacc tggccatctc tgatctgctt tttcttatta ctctcccat gtgggtctac tctgctgcaa atgattgggt ctttgggaat gcaatgtgca aattattcac agggctgtat cacatcggtt atttggcgg aatctcttc atcatcctcc tgacaatcga tagatacctg gctattgtcc atgctgtgtt tgctttaaaa gccaggacgg </p>	Homo sapiens

460 152245 C-C Chemokine Receptor 2 NP_000639.1 Homo sapiens

461 152299 Interleukin-8 Receptor A LG5459 Homo sapiens

tcacctttgg ggtggtgaca agtgtgatca cctggttggt ggtggtgttt gcttctgtcc
 caggaatcat ctttactaaa tgccagaaa agattctgt ttagtctgtt ggccttatt
 ttccacgagg atggaataat ttccacacaa tgctactcgg gaactctgaa aacctgctt cgtgtcga
 cgctgctcat catggtcatc gaggcatagg gcatgagag tcatctcac ccatgattt gttactttc
 ttctctggac tccctataag attgtcattc tccgaaacac ttccaggaa ttcttcggcc
 tgagtaactg tgaagcacc agtcaactgg accaagccac gcaggtgaca gagactcttg
 ggatgactca ctgctgcatc aatcccatca tctatgcctt cgttggggag aagttcagaa
 ggtatctctc ggtgttcttc cgaagcaca tcaccaagcg cttctgaaa caatgtccag
 tttctacag ggagacagtg gatggagtga cttcaacaaa cagccttcc actggggagc
 aggaagtctc ggtgtgttta taaaacgagg agcagtttga ttgtgttta taaagggaga
 taacaatctg tatataacaa caaacttcaa ggtttgttg aacaatagaa acctgtaaag
 cagtgccca ggaacctcag ggctgtgtg actaatcac actatgtcac ccaatgcata
 tccaacatgt gctcaggga taatccagaa aaactgtgg tagagacttt gactctccag
 aaagctcatc tcagctcctg aaaaatgcct cattaccttg tctaatacct ctttttctag
 tcttcataat ttcttcactc aatctctgat tctgtcaatg tcttgaatc aagggccagc
 tggaggtgaa gaagagaatg tgacaggcac agatgaatgg gagtgggga tagtggggtc
 agggctgaga ggagaaggag ggagacatga gcatggctga gctggacaa agacaaaggt
 gagcaaaagg ctcacgcatt cagccaggag atgatactgg tcttagccc catctgccac
 gtgtatttaa ccttgaaggg ttcaccagggt caggagagat ttgggaactg caataacctg
 ggagttttgg tggagtcgga tgattctctt ttgcataagt gcatgacata ttttgcctt
 attacagttt atctatggca cccatgcacc cccctgtcta aaactatgaa atatcatgct
 ccattgttca gatgttctt aggccacatc atatatgct aatatatga aatattttgt
 ttataaaga tgcatatatc atgatatgct aatatatga tatgcaatat aaaatttag
 MLVLLILINC KKLKCLTDIY LLNLAISDLL FLITLPLWAH SAANEWVFN AMCKLFTGLY
 HIGYFGGIF ILLTIDRYL AIVHAVFALK ARTVTFGVVT SVITWLVAVF ASVPGIIFTK
 CQKEDSVYVC GPYFPRGWN EHTIMRNILG LVPLLLIMVI CYSGLKTL RCRNEKRRHR
 AVRVIPTIMI VYFLFWTPYN IVILNLTQF FFGLSNCEST SQLDQATQVT ETLGMTHCCI
 NPILYAFVGE KFRYLSVFF RKHITKRFC QCPVFYRETV DGVSTNTPS TGEQVSAGL
 CAGAAATCCT CAGGTCCCAC AGAATGAAC AGTFTTCTA AAATAAAGTC AAGCCAAGCT A
 GTCCTACCCC AAAGAAATC CTAGCAAGCA AAGTGGCTT CCTTCTGTAG CCCCAGCCA
 GGTGTGTCCA ACCGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC
 ACTTGATGAG TAAGTGAA TAGGGAAC TAGGGAAC AAGTCAGACG ACACCTCCCT TCTGAGTCCC
 AACCATGTCT ACATCTGGAG AGAACAGTT AAGTCAAGG ATCAGACT TGTGATTAGA
 GACTGCCAGG GTCCATATGA CCAAGCGGG GTCCCAGGTG TGAAGCTGGG GTTGAGGATC
 CATATCTGA ATTTTCCACT CTATGGATGA TCACTTTTAT TCTTTTCTT TCTTGAAT
 TATTTCCATT TGTATTATCC TAAATTCCT GGTAGATCAC CTGTGAAGC TTGCAACTGT
 CTGATAGAA TAAAGGGGGA AGGATTGAC TTTACAGAG AGACTTCAGA AGGATCCTC
 TCTAGGAGCA AATTGGGGC AATCCAGTGG GAAGAGGTG GAAGACTGCA CTTGAGCTGC
 GTTTGGACAA CAGGCACACA ATCTTTACTT ACTTTTCAGG CTGCTTTGAG GT

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463	152299 Interleukin-8 Receptor A	NP_000625.1	acaggaatga atgcatgctg aaaagaccac tctttt MSNITDPQMW DFDLNFQGM PPADEYSPC MLETETLNKY VVIAAYALVF LLSLLGNSLV P MLVILYSRVG RSVTDVYLLN LALADLLFAL TLPWAASKV NGWIFGTFLC KVSLLKKEVN FYSGILLAC ISVDYLAIV HATRTLQKR HLKVFVCLG WGLSMNLSP FFLFRQAYHP NNSSPVCYEV LGNDTAKWRM VLRLPHTFG FIVPLFVLMF CYGETLRTLK KAHMGQKHRA MRVIFAVVLI FLLCWLPYNL VLLADTLMT QVIOESCERR NNIGRALDAT EILGFLHSCL NPIIYAFIQ NFRHGLKIL AMHGLVSKF LARHRTSYT SSSVNVSSNL	Homo sapiens
464	158822 Mas Proto-Oncogene	NM_002377	cctgagccct cctcatggat gggtaaacg tgacatcatt tgttgttgag gaacccacga A acatctcaac tggcaggaa gctcagtcg ggaatgcaca tggcaaatc cccatcgtgc actgggtcat tatgagcatc tccccagtgg ggtttgttga gaattggatt ctctctggt tctgtgctt ccgcatgaga agaaatccct tcaactgtcta catcaccac ctgtctatcg cagacatctc actgctcttc tgtatttca tcttgtctat cgactatgct ttagattatg agctttcttc tggccattac tacacaattg tcacattatc agtgactttt ctgtttggct acaacacggg cctctatctg ctgacggcca ttagtgtga gaggcctg ttagtccctt accccatctg gtaccgatgc catgcacca agtaccagtc gcatgtgctg tgtgcccc tgtggctct tcttgcctg gtgaccacca tggagatgt catgtgcac gacagagaag aagagagtc ctctcggaat gactgccgag cagtcacat ctttatagcc atcctgagct tctgtgctt cagccccctc atgtggtgt ctagcaccat ctgtgctgtg aagatccgga agaacacgtg ggttcccat tctccaagc ttacatagtc catcatggc accatcata tattcctcat cttcgctatg cccatgagc tctttacct gctgtactat gagtattggt cgaccttgg gaacctacac cacattccc tgctctctc cacaatcaac agtagcgcca acccttcat tctctctt gtgggaagca gtaagaagaa gagattcaag gactcctaa aagttgtctt gaccagggt ttcaaatgag aaatgcaacc tggcgccag aaagacaatt gtaatacggg cacagttgag actgtcgtc aagaactgtg agggaggtg tggataaaaa tgggtgaaca caggtcattt ttagttgtg ctgtgaatat gactaagta tctcctaaat gtgatacaga agaacatctc atcccatg catgagatc taattaatga tgaaa MDGNSVTSFV VEEPTNISTG RNASVGNHR QIPVHWIM SISPVGFVEN GILLWFLCFR P MRRNPFTVYI THLSIADISL LFCIFILSID YALDYELSSG HYVTIVTSLV TFLFGYNTGL YLLTAISVER CLSVLYPIWY RCHRPKYQSA IVCALLWALS CLVTMEYVM CIDREEESH RNDCRVAVIF IAILSFLVFT PLMLVSSTIL VVKIRKNTWA SHSKLYIVI MVTIIIFLIF AMPMLLLYLL YYEYWSFTGN LHHISLLFST INSSANPFIY FVGVSSKKR FKESLKVLT RAFKDEMQR RQDNCNTVT VETV	Homo sapiens
465	158822 Mas Proto-Oncogene	NP_002368.1	atgctgcccg actggaagag ctcttgatc ctcatggctt acatcatcat ctctctcact A ggcctccctg ccaactcctt ggccttgctg gctttgttg ggcggatccg ccagccccag cctgcaactg tgacatcct cctgctgagc ctgacgtg ggcacctcct cctgctgctg ctgtgccc tcaagatcat cgaggctg tgaacttcc gctgggtacct gcccaaggct gtctgcccc tcaagattt tggcttctac agcagcatct actgcagcac gtggctcctg gcgggcatca gcatcgagc ctacctggga tggcttcc cctgcaagta caagctctc cgccggcctc tgtatggagt gattgcagct ggttggcct ggttatgtc ctttgggtcac tgcaccatcg tgatcatcgt tcaatacttg aacacgactg agcaggtcag aagtggcaat	Homo sapiens
466	159152 G Protein-Coupled Receptor GPR43	NM_005306		Homo sapiens

467	159152 G Protein-Coupled Receptor GPR43	NP_005297.1	gaaattacct gctacagagaa cttaccagat aaccagttgg aactgtgtgt gcccgtgagg ctggagctgt gcctggtgct cttcttcate cccatggcag tcaccatctt ctgctactgg cgttttgtgt ggatcatgct ctcaccagccc cttgtggggg ccagagggcg gcgccgagcc gtggggctgg ctgtggtgac ctagctcaat agccctggtt ggcggtaaat agccgtggtg tcccacctgg tggggtatca ccagagaaaa ctagctctttt attctcttcc ttcagtgtgtg ttcagttcac tcaacgccag tctggacccc ctagctctttt attctcttcc ttcagtgtgtg cgcaggccat ttgggagagg gctgcaggtg ctgcggaatc agggctcctc cctgttggga cgcagaggca aagacacagc agaggggaca aataggaca ggggtgtggg tcaaggagaa gggatgcaa gttcggactt cactacagag tag MLPDWKSSLI LMAYIIIFLT GLPANLILALR AFVGRIRQPQ PAPVHILLLS LTIADLILL P LLPFKIIIEA SNFRWYLPKV VCALTSGFY CTIVIIQYL NTTEQVRSGN EITCYENFTD NQLDVLPVR RRPLYGVIAA LVAVWMSFGH CTIVIIQYL NTTEQVRSGN EITCYENFTD NQLDVLPVR LELCLVLFIT PMAVTIFCYW RFVWIMLSQP LVGAQRRRRA VGLAVVTLLN FLVCFGPYV SHLVGYHQK SPWRSIAV FSSLNASLDP LLFYFSSSVV RRAFGRGLQV LRNQSSLLG RRGKDTAEGT NEDRGVQGE GMPSSDTTTE	Homo sapiens
468	159973 Vasoactive Intestinal Polypeptide Receptor 1	NM_004624	ggccacaggc cagcgccact ctgccaggct cccggccatc gccgcctgg tgcgcgcccc A gccagctctt tgcccgcgcg gggccgcgcg ccgcgggctc agggcagacc atgcgcgcg caagtcogct gccgcgcgcg tggctatgctg tctgtggcag cgcctcgcc tgggccttg ggccggcggg cggccaggcg gccaggctgc aggagagagt tgcctatgtg cagatgatcg aggtgcagca caagcagtcg ctggagaggg ccagctgga gaatgagaca ataggctgca gcaagatgtg ggacaacctc acctgctgac cagccacccc tgcggggccag gtagttgtct tggcctgtcc cctcatcttc aagctcttct cctccattca agcccgcaat gtaagccgca gctgcaccca cgaaggctgg acgcacctgg agctctgccc gtacccatt gctgtggtt tggatgacaa ggcagcgagt ttggatgagc agcagacctt gttctacggt tctgtgaaga ccggctacac cattggctac ggcctgtccc tgcgccacct tctggtcgcc acagctatcc tgagcctgtt caggaagctc cactgcacgc ggaactacat ccacatgcac ctcttcata ccttcactct gagggtgccc gctgtcttca tcaaaagactt ggcctcttcc gacagcgggg agtgcgacca gtgctccgag ggctcggtgg gctgtaaggc agccatggtc tttttccaat attgtgtcat ggctaaactc ttctggctgc tgggtgaggg cctctacctg tacacctgc ttgccgtctc cttcttctct gagcgggaagt ccatcgccag gtacatactc atcggtggg gggtacccag caccatcacc atggtgtgga ccatcgccag gatccatttt gaggattatg ggtgctggga caccatcaac tctcactgtt ggtggatcat aaaggggccc atcctcacct ccatcttggt aaacttcac cttgtttatt gcatcatccg aatcctgctt cagaaactgc ggccccaga tatcaggaag agtgacagca gtccatactc aggttagcc aggtccacac tctgtctgat cccctgtttt ggagtacact acatcatgtt cgccttcttt ccggacaatt ttaagcctga agtgaagatg gtctttgagc tgcgtcgagg gtctttccag ggttttgtgg tggctatcct ctactgcttc ctcaatggtg aggtgcaggc ggagctgagg cggaagtggc ggcgtggca cctgcagggc gtccctgggtt ggaaccccaa ataccggcac ccgtcgggag gcagcaacgg cgcacagtgc agcacgagg ttccatgct gaccgcgtc agccaggtg ccgcgcgtc ctccagcttc caagccgaa gttccctggt ctgaccacca ggatccagg ggcccaaggc ggcctctccc gccccttccc actcaccccc gcagacgccc gggacagagg	Homo sapiens

469	159973 Vasoactive Intestinal Polypeptide Receptor 1	NP_004615.2	<p>cctgccccgg cggggccagg cccggccctg ggctcggagg ctgcccccg cccccctggtc</p> <p>tctggtccgg aactcctag agaagcagc tctcctggag gattgcaggt ggaactcagt cattagactc</p> <p>gtgagagaga tgggagctcc tctcctggag gcaataaag ggcaaaaagt ctacatactt cctcctgac</p> <p>ctctccaaa ggcctccac tctggtctctt ctgcccatt ggagaaaagc aaccggtgga tctcaaaa</p> <p>tctgccccct gactgaggg cagaaaagt ctgcccggg aaggtcacca gcaccaaac</p> <p>acactggtg cctgaaatt caccattgct gtcaagtcc ttgggttaa gattaccac</p> <p>cacgtagtg gactgaagat gcagctcact accctattct ctcttacgc tagttatca</p> <p>tcaggcattt gctggttatt ctggagtttt tgtttggaga gcacacctat cttagtgggt</p> <p>gctttttaa gtgactggc cctgggtca gctcgtggg aggaagggtg acccaaggga</p> <p>ccccaccgaa ctgaagcctc tgggaaatga gaaggcagcc accagcgaat gtaggtctc</p> <p>ctgagggact tacctgctct ccaagtctca gtggttcat ctgtcaagt ggatctgtca</p> <p>ggactaagcc acttatctct cctgtctgtg gaagcaacag gaatcaagag ctgccccct</p> <p>caccagccat cctatgtgct aactgtgtga actaggtcca gagatgtgca cccatgggt</p> <p>tgccacca gacatacct caccctgcta cacatacagg attgaaactc agatctgtct</p> <p>ctgacagaaa tgaagcacg gactcttact gctaaacttt gtgtatcgta accagccaga</p> <p>gataggaaat ttttggta ccaactgtat tattaatgcc attatctga attccccctg</p> <p>tcctctggt ttttggta ccaactgtat tattaatgcc attatctga attccccctg</p> <p>ccacccacc cctcctggcg tgtggtgag gagccctcca tctcatgtat catctggata</p> <p>ggagcctgct ggtcacagcc tctctgtct gcccttcacc ccagtgcca ctgagcttc</p> <p>taccacacc tctgccagaa gatccccctca ggactgcaac aggcctgtgc acaataaat</p> <p>gttggcttgg a</p>	<p>ARLQEECDYV QMIEVQHQC LEEAOLENET P</p> <p>MRPPSPLPAR TCVWLAGALA WALGPAGQA VVVLACPLIF KLFSSIQGRN VRSCTDEGW THLEPGYPI</p> <p>IGCSKWDNL LDEQTMFYG SVKTYTIGY GLSLATLLVA TAILSLFRKL HCTRYIHMH</p> <p>ACGLDDKAAS AVFKDLALF DSGESDQCE GSVGCKAAMV FFQYCVMANF FWLLVEGLYL</p> <p>LFISFILRAA ERKYFWGYIL IGWVPSTFT MWTIARIHF EDYGCWDTIN SSLWIIKGP</p> <p>YLLAVSFFS LFICIIRILL QKLRPPDIRK SDSSPYSRLA RSTLLIPLF GVHYIMFAFF</p> <p>ILTSILVNF PDNFKPEVKM VFELVGSFQ GFVAILYCF LNGEVQAEIR RKWRRWHLQG VLGWNPKYRH</p> <p>PSGGSNGATC STQVSMLTRV SPGARRSSF QAEVSLV</p>	Homo sapiens
470	160040 Vasoactive Intestinal Polypeptide Receptor 2	NM_003382	<p>cgggacgagg gggcgcccc cgcgctcggg cgcgtcggct acagctgcgg ggccccaggt A</p> <p>ctccgcgcac tgcctcccg cccatgctgg aggcggcgga acccggggga cctaggacgg</p> <p>aggcgcgagg cgtcggcggg cccccggac gctgagctcg ggatgggac gctgctgct</p> <p>cccgcgctgc tgacctgctg gctgctcggc cccgtgaaca gcattcacc agaattgccga</p> <p>tttcatctgg aaatacagga ggaagaaaca aaatgtacag agctctgag gtctcaaca</p> <p>gaaaaacaca aagcctgcag tggcgtcgg gacacatca cgtgctggcg gctgccaat</p> <p>gtgggagaga ccgtcacggt gccctgccc aaagtcttca gcaatttta cagcaagca</p> <p>gaaacataa gcaaaaactg tacgagtgac ggatggtcag agacgttccc agattctgtc</p> <p>gatgcctgtg gctacagcga cccggaggat gagagcaaga tcacgttcta tattctggtg</p> <p>aaggccattt atacctggg ctacagtgtc ctctgtagt ccttgaac aggaagcata</p> <p>attctgtgct tcttcaggaa gctgcactgc accaggaatt acatccact gaacctgtc</p> <p>ctgtccttca tctgagagc catctcagtg ctggtcaagg acgacgttct ctactccagc</p>	<p>ARLQEECDYV QMIEVQHQC LEEAOLENET P</p> <p>MRPPSPLPAR TCVWLAGALA WALGPAGQA VVVLACPLIF KLFSSIQGRN VRSCTDEGW THLEPGYPI</p> <p>IGCSKWDNL LDEQTMFYG SVKTYTIGY GLSLATLLVA TAILSLFRKL HCTRYIHMH</p> <p>ACGLDDKAAS AVFKDLALF DSGESDQCE GSVGCKAAMV FFQYCVMANF FWLLVEGLYL</p> <p>LFISFILRAA ERKYFWGYIL IGWVPSTFT MWTIARIHF EDYGCWDTIN SSLWIIKGP</p> <p>YLLAVSFFS LFICIIRILL QKLRPPDIRK SDSSPYSRLA RSTLLIPLF GVHYIMFAFF</p> <p>ILTSILVNF PDNFKPEVKM VFELVGSFQ GFVAILYCF LNGEVQAEIR RKWRRWHLQG VLGWNPKYRH</p> <p>PSGGSNGATC STQVSMLTRV SPGARRSSF QAEVSLV</p>	Homo sapiens

471	160040 Vasoactive Intestinal Polypeptide Receptor 2	NP_003373.1	tctggcacgt tgcactgccc tgaccagcca tctctctggg tgggctgcaa gctgagcctg gtcttctctgc agtactgcat catggcaac tcttctctgc tcttctctgc ggggctctac ctccacaccc tcttgggtggc catgtctccc cctagaaggt gcttctctgc ctacctcttg atcgatggg gcttctcccac cgtctgcatc gctgcatgga ctgctggccag gctctactta gaagacaccc gttgctggga tacaacagac cacagtgtgc cctgggtgggt catacgaata ccgatttttaa ttccatcat cgtcaatttt gtccttttca ttagtattat acgaattttg ctgcagaagt taacatcccc agatgtcggc ggcaacgacc agtctcagta caagaggctg gccaagtcca cgtctctgct tatcccgctg ttcggcgctc actacatggt gtttgcctg tttcccatca gcatctcttc caataaccag atactgtttg agctgtgcct cgggtcgttc cagggcctgg tgggtggcct cctctactgt ttcctgaaca gtgaggtgca gtgcgagctg aagcgaaat ggcgaagccg gtgccgacc ccgtccgga gccgggatta cagggtctgc ggttctctct tctccacaa cggctcggag ggcgccccgc agtccaccg ceggtccga gcccagtcct tctgcaaac ggagacctg gtcacttagc cccacccctg cctgtcggac gcggcgggag gccacgggt cggggcttct gcgggctga gacgcccgt tctctcttcc agatgccga gcaccgtgtc gggcaggtca gcgcgtctc gactccgtca agctggttgt ccactaaacc ccatacctgg	Homo sapiens
472	160055 Motilin Receptor (GPR38)	NM_001507	atgggcagcc cctggaacgg cagcgacggc cccgaggggg cgcgggagcc gccgtggccc A gcgtgccgc cttgcgacga gcgcgctgc tgcctcttc cctgggggc gctggtgccg gtgaccgctg tgtgctgtg cctgttctgc tgcggggtga ggcgcaacgt ggtgaccgtg atgctgatc ggctctacc ggacatgcgg accaccaca acttgtaact ggcagcatg ccgtgtccg acctactcat cctgtcggg ctgcccctg acctgaacc ccttgccg tcgcggccct ggtgttctgg gccgtgtc gcgctcagc tgcctacgt ggcgagggc tgacactacg ccacgtgt gcacatgacc cgtcttggt acccgccgc gctcctcgt tgccgcccgc tccgcgccg cgtcttggt cgtctctgcc ggtcccttct tgttctgtag gtgctctggg ccgtggcgt gctctctg agtccgggc ctcaatggca ccgcgggat cgcctctc caggacccc gcatctcgt agtccgggc tgcgggggc caccgccgtc cccgccgtg cctctgcct cgtcgcgcc cgtctggtc ttcagcccg ttcagcccg aatgccggc gagecccg ggcccgaga ccgcggagg ccgcgctg cgtctggtg gtcacaccg cctacttctt cctgcccctt cagctggggt cgtgctgt catgctgtg gtcacaccg aggcggcag tgtggagcag ccggcgccg ctgtgctca gcatcctca cgggtctc aggcgggag agagccacc ggcagaccgt ccgcgtctg ctgcgagggc cggccgctc gggcgggag agagccacc ggcagaccgt ccgcgtctg ctggtggtg tctggcatt tataattgc tgggtgcct tccacgttg cagaatcatt tacataaaca cggagattc gcgatgatg tacttctctc agtactttaa catcgtcgtc	Homo sapiens

473	160055	Motilin Receptor (GPR38)	NP_001498.1	ctgcaacttt tctatctgag cgcattctatc aacccaatcc tctacaaact catttcaaag aagtacagag cggcgccctt taaactgctg ctcgcaagga agtccaggcc gagaggcttc cacagaagca gggacactgc ggggaagtt gcaggggaca ctggaggaga cacggtgggc tacaccagga caagcgctaa cgtgaagacg atgggataa MGSPWNGSDG PEGAREPPWP ALPPCDERRC SPFPLGALVP VTAVCLCLFV VGVSGNVTV P MLIGRYRDMR TTTNLYLGSML AVSDLLILG LPFDLYRLWR SRPWVFGPLL CRLSLYVGE CTYATLLHMT ALSVERYLAI CRPLRARLV TRRRVRLIA VMAVALLSA GPFLFLVGE QDPGISVPG LNTARIASS PLASSPPLWL SRAPPSPPS GPETABAAAL FSRECRPSPA QLGALRVMLW VTTAYFFLPF ICLSILYGLI GRELWSSRRP LRGPAAAGRE RGHRTQTVRL LVVLAFIIC WLPFHVGRII YINTEDSRMM YFSQYFNIVA LQLFYLSASI NPILYNLISK KYRAAAFKLL LARKSRPRGF HRSRDTAGEV AGDTGGDTVG YTETSANVKT MG atggacctgc cccgcagct ctccttcgag cttatgttg cgcctttgc gctggcttc A cgcgtcaacg tccctggccat ccgaggcgag acggccacg cccggctccg tctcaccct agcctggtct agccctgaa cctgggctgc tccgacctgc tgcgtacact ctctctgccc ctgaaggcgg tggaggcgct agcctccggg gcctgcctc tgcgggcttc gctgtgccc gtcttcgcg tggccactt ctcccaact cttcccgag tatgcggcg gggcttctt ggcgcctg agtgcaggcc gctacctggg agcagcttc cctttgggt accaagcctt ccggaggcgg tgctattcct ggggggtgtg cgcggccatc tgggccccg tctgtgtca cctgggtctg gtctttgggt tggaggctcc aggaggctgg ctggaccaca gcaacacctc cctgggcatc aacacaccgg tcaacggctc tccggtctgc ctggaggctt gggaccggc cttgcggc cgggccgct gcagcctctc tctcctctc tctgtgtgc cttggccat cacagcctt tgctacgtgg gctgctccg ggcactggc cgcctcggc tgaagcacag cgggaagctg cgggccgct gggggccgg cggggccctc ctacagctgc tgcctcgct aggaccctac aacgcctcca acgtggccag ctccctgtac cccaatctag gagctcctg gcggaagctg gggctcatca cgggtgcctg gagtgtgtgt cttaatccgc tggtagccgg ttacttggga agggtcctg gcctgaagac agtgtgtgc gcaagaacgc aagggggcaa gtcccagaag taa	Homo sapiens
474	160059	G Protein- coupled Receptor GPR40	NM_005303	atggacctgc cccgcagct ctccttcgag cttatgttg cgcctttgc gctggcttc A cgcgtcaacg tccctggccat ccgaggcgag acggccacg cccggctccg tctcaccct agcctggtct agccctgaa cctgggctgc tccgacctgc tgcgtacact ctctctgccc ctgaaggcgg tggaggcgct agcctccggg gcctgcctc tgcgggcttc gctgtgccc gtcttcgcg tggccactt ctcccaact cttcccgag tatgcggcg gggcttctt ggcgcctg agtgcaggcc gctacctggg agcagcttc cctttgggt accaagcctt ccggaggcgg tgctattcct ggggggtgtg cgcggccatc tgggccccg tctgtgtca cctgggtctg gtctttgggt tggaggctcc aggaggctgg ctggaccaca gcaacacctc cctgggcatc aacacaccgg tcaacggctc tccggtctgc ctggaggctt gggaccggc cttgcggc cgggccgct gcagcctctc tctcctctc tctgtgtgc cttggccat cacagcctt tgctacgtgg gctgctccg ggcactggc cgcctcggc tgaagcacag cgggaagctg cgggccgct gggggccgg cggggccctc ctacagctgc tgcctcgct aggaccctac aacgcctcca acgtggccag ctccctgtac cccaatctag gagctcctg gcggaagctg gggctcatca cgggtgcctg gagtgtgtgt cttaatccgc tggtagccgg ttacttggga agggtcctg gcctgaagac agtgtgtgc gcaagaacgc aagggggcaa gtcccagaag taa	Homo sapiens
475	160059	G Protein- coupled Receptor GPR40	NP_005294.1	MDLPPQLSFG LYVAAFALGF PLNVLAIRGA TAHARLRLTP SLVYAINLGC SDLLLTVSLP P LKAVEALASG AWPLPASLCP VFAVAHFFPL YAGGGFLAAL SAGRYLGAAP PLGYQAFRRP CYSWGVCAAI WALVLCHLGL VFGLEAPGGW LDHSNTSLGI NTPVNGSPVC LEAWDPASAG PARFSLSLLL FFLPLAITAF CYVGLRALA RSLTHRRKL RAAWVAGGAL LTLLLCVGPY NASNVASFY PNLGGSWRKL GLITGWSV LNPLVTGYLG RGPGLKTVCA ARTQGGKSQK atgcacaccg tggctacgtc cggaccacac gcgtcctgg gggcacccgg caacgcctc A ggctgccccg gctgtggcgc caacgcctcg gacggcccg tcccttcgcc gcgggcccgtg gacgcctggc tgcgtccgct cttcttcgag gcgtgatgc tgcctggcct ggtggggaac tcgctgggtca tctacgtcat ctgcgccac aagccgatgc ggaccgtgac caacttctac atcgcccaac tggcgccac ggcgtgacc ttcctctgt gctgcgtccc cttcacggcc ctgctgtacc cgtgccccg ctgggtgctg ggcacttca tgtgcaagtt cgtcaactac atccagcagg tctcggtgca ggcacgtgt gccacttga ccgcatgag tgtggaccgc tggtagctga cgggtgtccc gttgcgcgc ctcacccgc gcacgcccc cctggcgctg gctgtcagcc tcaagcatcg gtaggctct gggcggtgt ctcgcccgt gctcgcctg	Homo sapiens
476	160189	G Protein- Coupled Receptor GPR54	NM_032551	atgcacaccg tggctacgtc cggaccacac gcgtcctgg gggcacccgg caacgcctc A ggctgccccg gctgtggcgc caacgcctcg gacggcccg tcccttcgcc gcgggcccgtg gacgcctggc tgcgtccgct cttcttcgag gcgtgatgc tgcctggcct ggtggggaac tcgctgggtca tctacgtcat ctgcgccac aagccgatgc ggaccgtgac caacttctac atcgcccaac tggcgccac ggcgtgacc ttcctctgt gctgcgtccc cttcacggcc ctgctgtacc cgtgccccg ctgggtgctg ggcacttca tgtgcaagtt cgtcaactac atccagcagg tctcggtgca ggcacgtgt gccacttga ccgcatgag tgtggaccgc tggtagctga cgggtgtccc gttgcgcgc ctcacccgc gcacgcccc cctggcgctg gctgtcagcc tcaagcatcg gtaggctct gggcggtgt ctcgcccgt gctcgcctg	Homo sapiens

477	160189 G Protein-Coupled Receptor GPR54	NP_115940.1	<p>caccgcctgt caccggggcc gcgcgcctac tgcagtgagg ccttccccag ccgcgcctg gagcgcctc tgcactgta caactgctg gcgctgtacc tgcgtccgct gctcgcacc tgcgcctgt atgcggccat gctgcgccac gctgcggcgg tgcgcgtgag cccgcgcgcc gccgatagc cctgcaggc gcagtgctg gcagagcggc caggcgcctg gcgggccaag gtctcgcgc tgggcggcgc cgtggtcctg ctcttcgcgc cctgctgggg ccccatccag ctgttcctgg tgcgcaggc gctgggcccc gcgggctcct ggacaccacg cagctacgcc gcctacgcgc ttaagacctg ggctcactgc atgtectaca gaaactccgc gctgaacccg ctgtctacg ccttctgggg ctgcacttc cgacaggcct tccgcgcgt ctgccccctg gcgcgcgcc gcccccgcgc cccccgcgc cccggaccct cggaccccg agccccacac gcggagctgc accgcctggg tccccaccg gcccccgca gggcgagaa gccagggagc agtgggctgg ccgcgcgcgc gctgcgcgc gctgtgcgc ctggggggag acaacgcct tctctga</p>	Homo sapiens
478	160202 Adrenomedullin Receptor (ADMR)	LG6564	<p>MHTVATSGPN ASWGAPANAS GCPGCCANAS DGPVSPRAV DAWLVPLFFA ALMLGLVGN P SLVIYVICRH KPMRTVTFNY IANLAATDVT FLCCVPFTA LLYPLPGWVL GDFMCKFVNY IQQVSVQATC ATLTMSVDR WYVTVFLRA LHRTPRLAL AVLSIWVGS AAVSAPVLAL HRLSPGPRAY CSEAFPSRAL ERAFALYNLL ALYLLPLLAT CACYAAMLRH LGRVAVRPAP ADSALQGQVL AERAGAVRAK VSRLVAUVL LFAACWGPIQ LFLVLQALGP AGSWHPRSYA AYALKTWAHC MSYNSALNP LLYAFLGSHF RQAFRRVPC APRRRPRRR PGPSDPAAPH AELHRLGSHP APARAQKPGS SGLAARGLCV LGEDNAPL</p>	Homo sapiens
479	160202 Adrenomedullin Receptor (ADMR)	NM_007264	<p>CCGCGCCAC GTGCGTGTG CTGCGCGCT CAGTGACGG GCATTGTTCAT GCACGTGGTG A ACCTATCATC AGACCTGTCT CTGCTCACA CTGTATGGAA CCCACATCTG CCTACACTGC CACTGTGATC CAACTGTCT ACTTCTTCTA TGATGTCTAG TGACTGTCTG TACATGCTAG ACTGCGCTAT TCACCGGATC CTTGACAACT TTATCAGCCA GACTGCCGGG GCGGGCTGCG ATGCTGTGGT CCATTACTTG CTAAGGACCA GACCGCGGG GCACATGCGC CTCTCTTCC TTCTGTGACA CCCAGCGTTA CATAATCAT ACCACGGGTG ATAGCCAGAC TGCTGCGAGC AACCGGCCAC CCTGCAGCCA AGCCTGAGCT TTCAGGCACA CCATTGCTC GCAAAGACTT GCGCCATGTG TCCCACTCAG TGTCTTACAC CCAGCTGAGG T</p>	Homo sapiens
479	160202 Adrenomedullin Receptor (ADMR)	NM_007264	<p>cagcctcctc acagctcccc atagcctgga cctgcgcgc ctcctccag gaccgagggg A ctcccaagg aaactcaggc gtgtgtgtgt cccaatgtca gtgaaccca gctggggcc tggccccctg gagggggtca cgcagtgcc taccagtgc ttggagaga tccacaactg gaccgagctg cttgacctct tcaaccacac ttgtctgag tgccagtggt agctcagcca gagcaccag cgcgtggtcc tcttgccct ctacctggcc atgttgtgg ttgggctggt ggagaacctc ctgggtgatat gcgtcaactg gcgcgggag ggctgatgaa cctctacatc ctcaacatgg ccctgcgga cctgggcatt gtctgtctc tgcctgtgtg gatgctggag gtacagctgg actacacctg gctctggggc agcttctcct gcgcctcac tcaactctc tactttgtca acatgtatag cagcatcttc tctctggtgt gcctcagtgt gcagcgtat gtcacctca ccagcctc cccctcctgg cagcgttacc agcaccaggt gcggggggcc atgtgtgcag gcacttgggt cctctcggcc atcatccgc tgcctgaggt ggtccacatc cagctggtgg agggccctga cccatgtgc ctcttcattg caccctttga aacgtacagc acctggggcc tggcggtggc cctgtccacc accatcctgg gcttctcgt gcccttccct ctcatcacag tcttcaatgt gctgacagc tgcgggctgc gcagagcagg acaacccaag agccggcgcc actgttgtgt gctgtgcgc taagtggcc tcttgtcat</p>	Homo sapiens

480	160202 Adrenomedullin NP_009195.1	MSVKPSWGP	PSEGVTAVPT	LDLGEIHNWT	ELLDLFNHTL	SECHVELSQS	TKRVLFALY	P	Homo sapiens
		LAMFVVGGLVE	NLLVICVNR	SGSRAGIMNL	YILNMAIADL	GIVLSLPVWM	LEVLTIDYTWL		
		WGSFSCRFTH	YFYFVNMYS	IFFLVCLSD	RYVTLSASP	SWQRYQHRVR	RAMCAGIWL		
		SAIPLPEV	HIQLEGEPEP	MCLEMAPFET	YSTWALAVL	STTILGFLLP	FPLITVFNVL		
		TACRLRQPGQ	PKRRRHCLLL	CAYVAVFVMC	WLPYHVTLLL	LTLLHGTHTSL	HCHLVHLLLYF		
		FYDVIDCFSM	LHCVINPILY	NFLSPHFRGR	LLNAVVHYLP	KDQTKAGTCA	SSSSCSTQHS		
		IIITKGDSP	AAAAPHPEPS	LSFQAHLPL	NTSPISPTQP	LTPS			
481	160204 G Protein-Coupled Receptor RTA	atgcgggttc	tgcttccaaa	gccatctctt	ccagcaggag	agggctctac	tctgagctcc	A	Homo sapiens
		tattttccaa	ggctccgggc	cgcgctcggc	gttggcctgc	tgccccggcg	ggctccggcg		
		ccggaggcgg	gagtcacagg	aagagccctc	cacaaaagg	ggcctcggcg	gacaggaca		
		gctgcagggtg	ggtgtgcaga	ctggtgagct	gccagcagg	gcccagacgc	gccaggcctg		
		gagatggctg	gaaactgtct	ctgggaggcc	catcccggca	acaggaaacag	gatgtgcct		
		ggcctgagcg	agggcccgga	actctacagc	cggggcttcc	tgaccatcga	gcagatcgcg		
		atgctgccgc	ctccggccgt	catgaactac	atctctcct	tctctgctc	gtgtggcctg		
		gtgggcaacg	ggctggtcct	ctggttttcc	ggcttctcca	tcaagaggaa	cccccttctc		
		atctacttcc	tgacactggc	cagcgccgat	gtgggctacc	tcttcagcaa	ggcggtgttc		
		tccatcctga	acacgggggg	cttctctggc	acgtttgccg	actacatccg	cagcgtgtgc		
		cggttctctgg	ggctctgcat	gttctctacc	ggcgtgagcc	tcttgccggc	cgtcagcgcc		
		gagcgctgcg	cctcggtcat	cttccccgcc	tggtactggc	gccggcgccc	caagcgccctg		
		tcggccgtgg	tgtgcgccct	gctgtgggtc	ctgtccctcc	tggtcacctg	cctgcacaa		
		tacttctgcg	tggtctctgg	ccgcgggggc	ccggcgccgg	cctgcaggca	catggacatc		
		ttcttgggca	tcctctctgt	cctgctctgc	tgcccgtcca	tggtgctgcc	ctgctggcc		
		ctcactcctgc	acgtggagtg	ccgggcccga	cggtgcccag	gctctgcca	gctcaaccac		
		gtcactcctgg	ccatggtctc	cgtcttctctg	gtgtcctcca	tctacttagg	gacgactgg		
		ttctcttct	gggtcttcca	gatccccggc	cccttccccg	agtaactcac	tgacctgtgc		
		atctgcatca	acagcagcgc	caagcccatc	gtctacttcc	tgccggggag	ggacaagtgc		
		cagcggtctgt	ggagcccgct	caggggtggtc	ttccagcggg	ccctgcggga	cggtcgctgag		
		ctgggggag	ccgggggag	cacgcccac	acagtaccca	tgagatgca	gtgtcccccc		
		gggaacgcct	cctgagactc	cagcgccctg	aggaggcagg	ggcagggaag	ggcctccaag		
		acccttcgcc	ttgggacagg	aatgggcacc	tgcttcttag	tcatacagg	agaagaaaga		
		tctgtttcct	ctcctcgggc	ctccttctcc	gtgggtgggg	gactcagggg	gtggctggga		
		gactggggcag	ccaccagcaa	acagacctgt	ggccccctgc	cggtcccccc	acctattctg		
		ctccccctaga	gacctctgt	acagaagtgt	gccccagggtg	gtggggcccc	tccttgccct		
		aggctgggtg	gtaaaagaga	ggagggtcaac	accagccta	gccacctctg	cctcttgggt		

482	160204 G Protein- Coupled Receptor RTA	CAC39840.1	<p>cagccctcct tgactgtgtc ccagccagca ccagccagc agcctcatcc ctgccattca</p> <p>gggctgttcc agagattcga tcctcttaag gcattatcag tgagcaaatg tgaaggaaat</p> <p>ggtgtctgga agaaagtctt ggttcacatg ccttgtagct aagcttttct gcaaaccaacc</p> <p>tccttcccc cgtcgagtc atttggtgac tttgatggg ggatttcttg ttatgtcaag</p> <p>gctctggaga caggaaggc ctttgccgc gctggtagt gcactgcct tttctgactc</p> <p>cggaacgagc cagtccatag ctgctcccg gacacttga ggtatcccg agccatgag</p> <p>gaccactgg gcagctcctg gacagcctct tggctccag cccaccgga aagtggacac</p> <p>tggtcccgcc ctggccacct ggggactgg actgtggtg acagtggccc aatgtggcca</p> <p>acggaagttt tataaagac aaaaatgata tcaataaaca tttataact tgc</p> <p>MAGNCSWEAH PGNRNMCPG LSEAPELYSR GFLTIEQIAM LPPAVMNYI FLLCLCGLV P</p> <p>GNGLVLWFFG FSIKRNPFISI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR</p> <p>VLGLCMFLTG VSLLPAVSAE RCASVIFPAW YWRRRPKRLS AVVCALLMWL SLLVTCILHNY</p> <p>FCVFLGRGAP GAACRHMDF LGILLFLCC PLMVLPCLAL ILHVECRARR QRSAKLNHV</p> <p>ILAMVSVFLV SSIYLIGIDWF LEWVFOIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ</p> <p>RLWEPLRVVF QRALRDGAEL GEAGGSTPNT VTMEMQCPG NAS</p> <p>atgaatgggg tctcgaggg gaccagaggc tgcagtgaca ggcaacctgg ggtcctgaca A</p> <p>cgtgatcgct ctgtgtccag gaagatgaac tcttccggat gctgtctga ggaggtggg</p> <p>tcctcccgcc cactgactgt ggtatccctg tctgctgcca ttgctgctgg agtgcctggc</p> <p>aatgggctgg tgctgtggat gactgtcttc cgtatggcac gcaaggcttc caccgtctgc</p> <p>ttcttccacc tggcccttgc cgatttcacg ctctcactgt ctctgcccc tgccatgtac</p> <p>tatatgtct ccaggcagtg gctcctcga cagtaactgc ctctgtctt gcaactcta catcacctt</p> <p>gtgttctcga gctactttgc cagtaactgc cctctgtct cctctgtct ggaccgttgc</p> <p>atctctgccc tctacccctg ctggccctg aaccaccgca ctgtgcagcg ggcagctgg</p> <p>ctggcccttg ggtgtggct cctggccgccc gcttctgtct ctgscgacct gaaattccgg</p> <p>acaaccagaa aatggaatgg ctgtacgacac tgctacttgg cgttcaactc tgacaatgag</p> <p>actgcccaga ttgggattga aggggtcgtg gagggaacaca ttatagggac cattggccc</p> <p>ttcctgtctg gcttccctgg gccccttagca atcataggca cctggcccca cctcatcccg</p> <p>gccaagctct tgcgggaggg ctgggtccat gccaacccgc ccaagaggct gctgctggg</p> <p>ctggtgagcg ctttctttat cttctgttcc cctttaaagc ttggtgctgtt ggctcatctg</p> <p>tgcgacggg tgatgctcaa ggaatctac cacccccga cctgctctat cctccaggct</p> <p>agctttgccc tgggctgtgt caacagcagc ctcaacccct tcctctacgt ctctgttggc</p> <p>agagatttcc aagaaaagt tttccagctt tgacttctg cctggcgag ggcgtttgga</p> <p>gaggaggagt ttctgtcatc ctgtcccccgt ggcaacgccc cccgggaatg a</p> <p>MNGVSEGTGR CSDRQPGVLT RDRSCSRKMN SSGCLSEEVG SURLPTVIL SASIVGVGLG P</p> <p>NGLVLMWTFV RMARTVSTVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYTF</p> <p>VFLSYFASNC LLVFISVDRS ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR</p> <p>TRKWNCGTH CYLAFNSDNE TAQIWIIEGVV EGHIIIGTIGH FLFGFLGPLA IIGTCAHLIR</p> <p>AKLLRGWVH ANRPKRLLLV LVSAFFIWS PFNVLLVHL WRRVMLKEIY HPRMLLIQA</p> <p>SFALGCVNSS INPFLYVFG RDFQKEFFQS LTSALARAFG EEEFLSSCPR GNAPRE</p> <p>cagcctccct ctcccacctc tgtctgccc gctgcctctt gctagctgtc gtcaggagct A</p> <p>gactgcctcc agggctggaa tctgtgtctc cctctgtgccc cagagcccca cgatgtcggc</p>	Homo sapiens
483	160206 G Protein- Coupled Receptor GPR32	NM_001506	<p>atgaatgggg tctcgaggg gaccagaggc tgcagtgaca ggcaacctgg ggtcctgaca A</p> <p>cgtgatcgct ctgtgtccag gaagatgaac tcttccggat gctgtctga ggaggtggg</p> <p>tcctcccgcc cactgactgt ggtatccctg tctgctgcca ttgctgctgg agtgcctggc</p> <p>aatgggctgg tgctgtggat gactgtcttc cgtatggcac gcaaggcttc caccgtctgc</p> <p>ttcttccacc tggcccttgc cgatttcacg ctctcactgt ctctgcccc tgccatgtac</p> <p>tatatgtct ccaggcagtg gctcctcga cagtaactgc cctctgtct gcaactcta catcacctt</p> <p>gtgttctcga gctactttgc cagtaactgc cctctgtct cctctgtct ggaccgttgc</p> <p>atctctgccc tctacccctg ctggccctg aaccaccgca ctgtgcagcg ggcagctgg</p> <p>ctggcccttg ggtgtggct cctggccgccc gcttctgtct ctgscgacct gaaattccgg</p> <p>acaaccagaa aatggaatgg ctgtacgacac tgctacttgg cgttcaactc tgacaatgag</p> <p>actgcccaga ttgggattga aggggtcgtg gagggaacaca ttatagggac cattggccc</p> <p>ttcctgtctg gcttccctgg gccccttagca atcataggca cctggcccca cctcatcccg</p> <p>gccaagctct tgcgggaggg ctgggtccat gccaacccgc ccaagaggct gctgctggg</p> <p>ctggtgagcg ctttctttat cttctgttcc cctttaaagc ttggtgctgtt ggctcatctg</p> <p>tgcgacggg tgatgctcaa ggaatctac cacccccga cctgctctat cctccaggct</p> <p>agctttgccc tgggctgtgt caacagcagc ctcaacccct tcctctacgt ctctgttggc</p> <p>agagatttcc aagaaaagt tttccagctt tgacttctg cctggcgag ggcgtttgga</p> <p>gaggaggagt ttctgtcatc ctgtcccccgt ggcaacgccc cccgggaatg a</p> <p>MNGVSEGTGR CSDRQPGVLT RDRSCSRKMN SSGCLSEEVG SURLPTVIL SASIVGVGLG P</p> <p>NGLVLMWTFV RMARTVSTVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYTF</p> <p>VFLSYFASNC LLVFISVDRS ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR</p> <p>TRKWNCGTH CYLAFNSDNE TAQIWIIEGVV EGHIIIGTIGH FLFGFLGPLA IIGTCAHLIR</p> <p>AKLLRGWVH ANRPKRLLLV LVSAFFIWS PFNVLLVHL WRRVMLKEIY HPRMLLIQA</p> <p>SFALGCVNSS INPFLYVFG RDFQKEFFQS LTSALARAFG EEEFLSSCPR GNAPRE</p> <p>cagcctccct ctcccacctc tgtctgccc gctgcctctt gctagctgtc gtcaggagct A</p> <p>gactgcctcc agggctggaa tctgtgtctc cctctgtgccc cagagcccca cgatgtcggc</p>	Homo sapiens
484	160206 G Protein- Coupled Receptor GPR32	NP_001497.1	<p>atgaatgggg tctcgaggg gaccagaggc tgcagtgaca ggcaacctgg ggtcctgaca A</p> <p>cgtgatcgct ctgtgtccag gaagatgaac tcttccggat gctgtctga ggaggtggg</p> <p>tcctcccgcc cactgactgt ggtatccctg tctgctgcca ttgctgctgg agtgcctggc</p> <p>aatgggctgg tgctgtggat gactgtcttc cgtatggcac gcaaggcttc caccgtctgc</p> <p>ttcttccacc tggcccttgc cgatttcacg ctctcactgt ctctgcccc tgccatgtac</p> <p>tatatgtct ccaggcagtg gctcctcga cagtaactgc cctctgtct gcaactcta catcacctt</p> <p>gtgttctcga gctactttgc cagtaactgc cctctgtct cctctgtct ggaccgttgc</p> <p>atctctgccc tctacccctg ctggccctg aaccaccgca ctgtgcagcg ggcagctgg</p> <p>ctggcccttg ggtgtggct cctggccgccc gcttctgtct ctgscgacct gaaattccgg</p> <p>acaaccagaa aatggaatgg ctgtacgacac tgctacttgg cgttcaactc tgacaatgag</p> <p>actgcccaga ttgggattga aggggtcgtg gagggaacaca ttatagggac cattggccc</p> <p>ttcctgtctg gcttccctgg gccccttagca atcataggca cctggcccca cctcatcccg</p> <p>gccaagctct tgcgggaggg ctgggtccat gccaacccgc ccaagaggct gctgctggg</p> <p>ctggtgagcg ctttctttat cttctgttcc cctttaaagc ttggtgctgtt ggctcatctg</p> <p>tgcgacggg tgatgctcaa ggaatctac cacccccga cctgctctat cctccaggct</p> <p>agctttgccc tgggctgtgt caacagcagc ctcaacccct tcctctacgt ctctgttggc</p> <p>agagatttcc aagaaaagt tttccagctt tgacttctg cctggcgag ggcgtttgga</p> <p>gaggaggagt ttctgtcatc ctgtcccccgt ggcaacgccc cccgggaatg a</p> <p>MNGVSEGTGR CSDRQPGVLT RDRSCSRKMN SSGCLSEEVG SURLPTVIL SASIVGVGLG P</p> <p>NGLVLMWTFV RMARTVSTVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYTF</p> <p>VFLSYFASNC LLVFISVDRS ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR</p> <p>TRKWNCGTH CYLAFNSDNE TAQIWIIEGVV EGHIIIGTIGH FLFGFLGPLA IIGTCAHLIR</p> <p>AKLLRGWVH ANRPKRLLLV LVSAFFIWS PFNVLLVHL WRRVMLKEIY HPRMLLIQA</p> <p>SFALGCVNSS INPFLYVFG RDFQKEFFQS LTSALARAFG EEEFLSSCPR GNAPRE</p> <p>cagcctccct ctcccacctc tgtctgccc gctgcctctt gctagctgtc gtcaggagct A</p> <p>gactgcctcc agggctggaa tctgtgtctc cctctgtgccc cagagcccca cgatgtcggc</p>	Homo sapiens
485	160210 G Protein- Coupled	NM_004778	<p>atgaatgggg tctcgaggg gaccagaggc tgcagtgaca ggcaacctgg ggtcctgaca A</p> <p>cgtgatcgct ctgtgtccag gaagatgaac tcttccggat gctgtctga ggaggtggg</p> <p>tcctcccgcc cactgactgt ggtatccctg tctgctgcca ttgctgctgg agtgcctggc</p> <p>aatgggctgg tgctgtggat gactgtcttc cgtatggcac gcaaggcttc caccgtctgc</p> <p>ttcttccacc tggcccttgc cgatttcacg ctctcactgt ctctgcccc tgccatgtac</p> <p>tatatgtct ccaggcagtg gctcctcga cagtaactgc cctctgtct gcaactcta catcacctt</p> <p>gtgttctcga gctactttgc cagtaactgc cctctgtct cctctgtct ggaccgttgc</p> <p>atctctgccc tctacccctg ctggccctg aaccaccgca ctgtgcagcg ggcagctgg</p> <p>ctggcccttg ggtgtggct cctggccgccc gcttctgtct ctgscgacct gaaattccgg</p> <p>acaaccagaa aatggaatgg ctgtacgacac tgctacttgg cgttcaactc tgacaatgag</p> <p>actgcccaga ttgggattga aggggtcgtg gagggaacaca ttatagggac cattggccc</p> <p>ttcctgtctg gcttccctgg gccccttagca atcataggca cctggcccca cctcatcccg</p> <p>gccaagctct tgcgggaggg ctgggtccat gccaacccgc ccaagaggct gctgctggg</p> <p>ctggtgagcg ctttctttat cttctgttcc cctttaaagc ttggtgctgtt ggctcatctg</p> <p>tgcgacggg tgatgctcaa ggaatctac cacccccga cctgctctat cctccaggct</p> <p>agctttgccc tgggctgtgt caacagcagc ctcaacccct tcctctacgt ctctgttggc</p> <p>agagatttcc aagaaaagt tttccagctt tgacttctg cctggcgag ggcgtttgga</p> <p>gaggaggagt ttctgtcatc ctgtcccccgt ggcaacgccc cccgggaatg a</p> <p>MNGVSEGTGR CSDRQPGVLT RDRSCSRKMN SSGCLSEEVG SURLPTVIL SASIVGVGLG P</p> <p>NGLVLMWTFV RMARTVSTVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYTF</p> <p>VFLSYFASNC LLVFISVDRS ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR</p> <p>TRKWNCGTH CYLAFNSDNE TAQIWIIEGVV EGHIIIGTIGH FLFGFLGPLA IIGTCAHLIR</p> <p>AKLLRGWVH ANRPKRLLLV LVSAFFIWS PFNVLLVHL WRRVMLKEIY HPRMLLIQA</p> <p>SFALGCVNSS INPFLYVFG RDFQKEFFQS LTSALARAFG EEEFLSSCPR GNAPRE</p> <p>cagcctccct ctcccacctc tgtctgccc gctgcctctt gctagctgtc gtcaggagct A</p> <p>gactgcctcc agggctggaa tctgtgtctc cctctgtgccc cagagcccca cgatgtcggc</p>	Homo sapiens

Receptor
GPR44
(CRTH2)

caacgccaca ctgaagccac tctgccccat cctggagcag atgagccgtc tccagagcca
cagcaaacacc agcatccgct acatcgacca cgcggccgtg ctctgcacg ggtggccctc
gctgctgggc ctggtggaga atggagtcac cctcttcgtg gtgggctgcc gcatgcgcca
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486	160210 G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	MSANATLKPL CPILQMSRL QSHSNYSIRY IDHAAVLLHG LASLLGLVEN GVILFVVGCR P	Homo sapiens
487	160212 G Protein-Coupled Receptor GPR52	NM_005684	EEPRGPALL GWLLGSCAAS PQTGPLNRAL SSTSS atgaatgaat ccaggtggac tgaatggagg atcctgaaca tgagcagtggt cattgtgaat A gggtccgagc gtcactcctg cccacttggg tttggccact acagtgtggt ggatgtctgc atcttcgaga cagtgttat tgtgttgctg acatttctga ttattgtgg gaatacaaca gttatctttg cctttcattg tgcctccatg ttacatcatt atactaccag ctatttcatt cagacgatgg catatgctga tcttttcgtt ggagttagct gcttggttcc tactctgtca cttctccact actccacagg tgtccacagg tcattaaact gccgggtttt tggatatatc atctcagttc taaaaagtgt ttctatggca tgccttgctt gcatcagttt ggatcgttat cttgcaataa ccaagcctct ttctacaat caactgtgca cccctgtctg cttgagaaat tgcatatttt tgactctggat ctactcctgc ctaattttct tgccttccct ttttggctgg gggaaacctg gttaccatgg tgacattttt gaatggtgtg ccacgtccttg gctcaccagt gcctatttta ctggctttat tgtttgctta ctttatgctc ctgtgcctt tgttgtctgc ttcacctact tccacatttt caaaatttgc cgtcagcaca ccaagagat aatgaccca agagccgat tccctagtca tgaggtagat tcttccagag agactggaca cagccctgac cgtcgctacg ccatggtttt gtttaggata accagtgtat ttatatgct gtggctcccc tatataattt actttcttct agaaagctcc cgggtccttg acaatccaa cctgtccttc ttaacaaacct ggcctgcagt aagtaaatagt ttttgaact gtgtaataa cagcctctcc aacggcgctt tccggctagg cctccgaaga ctgtttgaga caatgtgcac atcctgtatg tgtgtgaagg atcaggaagc acaagaaccc aaacctagga aacgggctaa ttcttgctcc attga	Homo sapiens
488	160212 G Protein-Coupled Receptor GPR52	NP_005675.1	MNESRWTEWR ILNMSSGIVN ASERHSCPLG FGHYSVDVVC IFETVIVILL TFLIAGNLT P VIFAFHCAPL LHHYTSYFI QTMAYADLFV GVSCLVPTLS LHHYSTGVHE SITCRVFGYI ISVLKSVSMA CLACISVDRY LAITKPLSYN QLVTPCLRRI CIILIIWYSC LIFLPSFFGW GKPGYHGDIF EWCATSWLTS AYFTGFIVCL LYAPAAFVVC FTYFHIFKIC ROHTKEINDR RARFPSHEVD SSRETGHSPD RRYAMVLFRI TSVFYMLWLP YIYFLESS RVLDPNPTLSE LTTWLAVSNS FCNCVIYSLN NGVFRGLRLR LFETMCTSCM CVKDQEAQEP KPRKRANSCS I	Homo sapiens
489	160217 G Protein-Coupled	NM_005683	atgagtcagc aaaaacaccag tggggactgc ctgtttgacg gtgtcaacga gctgatgaaa A accctacagt ttgcagtgcca catccccacc ttctgctcctg gctgtcctct caacctgtg	Homo sapiens

Receptor GPR55			gcatccatg gcttcagcac cttccttaag aacaggtggc ccgattatgc tggcacctcc atctacatga tcaacctggc agtctttgac gtctgtctg tgcctcctt cccattcaag atggctcctgt cccaggtaca gtcccccttc cggctcctgt gcaactgggt ggagtgcctt tacttcgtca gcatgtacgg aagcgtcttc accatctgct tcatcagcat ggaccgggtc ttggccatcc gttaccgct actggtgag cactccggtc cccaggaag atctttggga tctgcatgca caactgggt cctgggtgg acggaagca tccctatcta cagtttccat gggaaagtgg aaaaatacat gtgttccac aacatgtctg atgatacttg gagcgcaag gtcttcttc cgtggaggt gtttggttc ctccttccca tgggcatcat gggcttctgc tgctccagga gcatccacat cctgctggg cgcgagacc acaccagga ctgggtgcag cagaaagcct gcatctacag catcgagcc agcctggctg tattegtgt ctccttctc ccagtcacc tggggtctt cctgcagttc ctggtgagaa acagctttat cgtagagtgc agagccaaag agagcatcag cttctcttg caattgtcca tgtgttctc caatgtcaac tgctgcctgg atgtttctg ctactactt gtcataaaag aattccgcat gaacatcagg gccacccgc cttccaggt ccagctgggt ctcgagga caacgatctc ccggggctaa MSQNTSGDC LFDGVNELMK TLQFAVHIPT FVLGLLLNLL AIHGFSTFLK NRWPDYAATS P IYMINLAVFD LLLVLSLPFK MVLSQVQSPF PSCLTIVECL YFVSMYGSVF TICFISMDRF LAIRYPLLV HSGPPGRSLG SACTIWLWV TSGIPIYSFH GKVEKYMCFH NMSDDTWSAK VFFPLEVFGF LLPMGIMGFC CSRSIHILG RDHTQDWVQ QKACIYSIAA SLAVFVVSFL PVHLGFFLQF LVNRSFIVEC RAKQSIFFFL QLSMCFNSVN CCLDVFCYYF VIKEFRMNIR AHRPSRVQLV LQDTTISR	490	160217 G Protein- Coupled Receptor GPR55	NP_005674.1		Homo sapiens
Receptor GPR35			atgaatggca cctacacac cttgtggctc agcgacctca cctggcccc agcatcaag A ctggccttct acgctactt gggcgtcctg ctggtgctag gctgtctgt caacagcctg gcgctctggg tgtctgctg ccgcatgcag cagtggacgg agaccgcat ctacatgacc aacctggcgg tggcgaacct ctgctgctg tgacacttg cctctgtgt gcaactcctg cgagacacct cagacacgcc gctgtgccag ctctccagg gcatctacct gaccaacagg tacatgagca tcagcctggt cagggccatc gcgctggacc gctatgtgg cgtcgggcac ccgctgcgtg ccgcggggt gcggtcccc agcgagcgtg cggcgtgtg cgcggtcctc tgggtgctgg tcateggct cctggtggct cgtgggtcc tggggtattca ggaggcggc ttctgcttca ggagacccg gcacaaattc aactccatgc ggttcccgct gctgggattc tacctgcccc tggcctggt ggtcttctg tccctgaagg tggtagctg cctggccccag aggccacca ccgacgtggg gcaggcagag gccaccgca aggtgccc ccatggtctg gccaaacctc tgggttctg ggtctgctc ctgccccctg acgtggggt gacagtgcgc ctgcagtggt gctggaacgc ctgtgcccct ctggagacga tccgtgcgc cctgtacata accagcaagc tctcagatgc caactgctgc ctggagccca tctgtacta ctacatggcc aaggagtcc aggagcgctc tgcactggcc ggggtcccc gtgctaagg ccacaaaaag caggactctc tgtcgtgac cctgcctaa MNGTYNTCS SDLTWPPAIK LGFYAYLGLV LVLGLLLNLS ALWVFCCRMQ QWTETRIYMT P NLAVADLCIL RDTLPFVLHSL RDTSDTLCQ LSQGIYLTNR YMSISLVTAI AVDRYVAVRH PLRARGLRSP RQAAAVCAVL WVLVIGSLVA RMLLIGIEGG FCFRSTRHNF NSMRFPLLGF YLPLAVWFC SLKVVTALAQ RPPTDVGOAE ATRKAARMWV ANLLVFVVCV LPLHVLTVR LAVGWNACAL LETIRALYI TSKLSDANCC LDAICYIMA KEFQESALA VAPRAKAHKS	491	160219 G Protein- Coupled Receptor GPR35	NM_005301		Homo sapiens
Receptor GPR35			gcatccatg gcttcagcac cttccttaag aacaggtggc ccgattatgc tggcacctcc atctacatga tcaacctggc agtctttgac gtctgtctg tgcctcctt cccattcaag atggctcctgt cccaggtaca gtcccccttc cggctcctgt gcaactgggt ggagtgcctt tacttcgtca gcatgtacgg aagcgtcttc accatctgct tcatcagcat ggaccgggtc ttggccatcc gttaccgct actggtgag cactccggtc cccaggaag atctttggga tctgcatgca caactgggt cctgggtgg acggaagca tccctatcta cagtttccat gggaaagtgg aaaaatacat gtgttccac aacatgtctg atgatacttg gagcgcaag gtcttcttc cgtggaggt gtttggttc ctccttccca tgggcatcat gggcttctgc tgctccagga gcatccacat cctgctggg cgcgagacc acaccagga ctgggtgcag cagaaagcct gcatctacag catcgagcc agcctggctg tattegtgt ctccttctc ccagtcacc tggggtctt cctgcagttc ctggtgagaa acagctttat cgtagagtgc agagccaaag agagcatcag cttctcttg caattgtcca tgtgttctc caatgtcaac tgctgcctgg atgtttctg ctactactt gtcataaaag aattccgcat gaacatcagg gccacccgc cttccaggt ccagctgggt ctcgagga caacgatctc ccggggctaa MSQNTSGDC LFDGVNELMK TLQFAVHIPT FVLGLLLNLL AIHGFSTFLK NRWPDYAATS P IYMINLAVFD LLLVLSLPFK MVLSQVQSPF PSCLTIVECL YFVSMYGSVF TICFISMDRF LAIRYPLLV HSGPPGRSLG SACTIWLWV TSGIPIYSFH GKVEKYMCFH NMSDDTWSAK VFFPLEVFGF LLPMGIMGFC CSRSIHILG RDHTQDWVQ QKACIYSIAA SLAVFVVSFL PVHLGFFLQF LVNRSFIVEC RAKQSIFFFL QLSMCFNSVN CCLDVFCYYF VIKEFRMNIR AHRPSRVQLV LQDTTISR	492	160219 G Protein- Coupled Receptor GPR35	NP_005292.1		Homo sapiens

493	160221 G Protein- Coupled Receptor GPR27	NM_018971	QDSLCLVTLA atggcgaaacg cgaagcgagcc ggggtggcagc ggcggcgccgc agggcgccgc cctgggccc A aagctggcca cgtcagcct gctcgtgtgc gtgagccctag cgggcaacgt gctgttcgcg ctgtgatcg tgcgggagcg cagcctgcac cgcgccccgt actacctgct gctcgacctg tgctggccg acgggctgcg cgcgtcgcc tgcctcccg cgtcatgct ggcggcgccg cgtgcggcg cgcggcgccg ggcgcgcgc ggcctcaagct gctcgccttc ctggccgcg tctctgtctt ccaagccgc tctcgtctgc tggcgtggg cgtcacccgc tacctggcca tgcgcacca cgccttctat gcagagcgc tggcggcgctg gccgtgcgc gccatgctgg tgtgcgcgc ctgggcgctg gcgctggccg cggccttccc gccagtctg gacggcggtg gcagcagca ggcgcgcgc tgcgcctgg agcagcgcc cgcagcgcc ccggcgccg tgggttctt gctcgtgtg gccgtggcg tggcgccac gcacctctc tacctccgc tgccttctt catccacgac cgcgcgaaga tgcggccgc gcgcctggtg ccgcgcgca gccacgactg gacctccac gcccgggcg ccacggcca ggcggccgc aactggacg cgggcttcg cgcgggcc cgcgcctc ctgctgtgg cgttgtggc catccggcc gacggccgg cgcggcgcc agatgttcta cgcgtcagc ctgctcttc tgcctctctg gggccctac gtcgtggcca gctacctgcg ggtcctggtg cggcccgcg cgcctcccc gccctacctg acggcctccg tgtggtgac ctgcgcgag gccggcata acccgtcgt gtgcttctc ttcaacagg agctgaggga ctgctcagg gccagttcc cctgctgcca gagcccccg accacccag cgaccatcc ctgcgacctg aaaggcattg gtttatga MANASEPGGS GGSEAAALGL KLATLSLLLC VSLAGNVLFA LLIVRERSLH RAPPYLLLLDL P CLADGLRALA CLPAVMLAAR RAAAGAAP GALGCKLLAF LAALFCFHAA FLILGVGTR YLAIARHRY AERLAGWPCA AMLVCAAWAL ALAAAFPPVL DGGDEDEDAP CALEQRPDGA PGALGFLLL AVVVGATHLV YLRLLFFIHD RRMKRPALV PAVSHDWTFFH GPGATGQAAA NWTAGFRGP TPPALVGIRP AGPGRGARRL LVLEEFKTEK RLCKMFYAVT LLFLLWGPY VWASYLRVLV RPAVPQAYL TASVWLTFQA AGINPVVCFL FNRELDCFR AQFPCCQSPR TTQATHPCDL KGIGL	Homo sapiens
494	160221 G Protein- Coupled Receptor GPR27	NP_061844.1	atggtcctc acccttgct gctctgtctc ctcccttgg tgcgagccac cgagccccac A gagggccgg ccgacgagca gagecggag cgcggccctg cgtgccccaa tgcctcgcc tcttctctt ggaacaacta cacttctcc gactggcaga acttgttggg caggaggcg tacggcgctg agtccagaa cccacgggtg aaagccctgc tcattgtggc ttactcttc atcattgtct tctcactct tggcaacgtc ctggtctgtc atgtcatctt caagaaccag cgaatgcact cggccaccag cctcttcac gtcaacctg cagttgccga cataatgatc acgctgctca acacccctt cacttgggtt cgttttga acagacatg gatatgtgg aaggcagt gcatgtcag cgccttggc cagtactgt cactgcactg ctcagcactg acactgacag ccattgcgtt ggatgccac caggtcata tgcacccctt gaaacccgg atctcaatca caaagggtgt catctacatc gctgtcatct ggaccatggc tacgttctt tcactccac atgtatctg catctacatc ttacacctca aatacagtga ggacattgtg cgtccctct gctgccaga ctccctgag ccagtgacc tctctggaa gtacctggac ttggccacct tcactctgt ctacatctg cctctctca tcactctgt ggcctacgt	Homo sapiens
495	160222 G Protein- Coupled Receptor GPR72	NM_016540	atggtcctc acccttgct gctctgtctc ctcccttgg tgcgagccac cgagccccac A gagggccgg ccgacgagca gagecggag cgcggccctg cgtgccccaa tgcctcgcc tcttctctt ggaacaacta cacttctcc gactggcaga acttgttggg caggaggcg tacggcgctg agtccagaa cccacgggtg aaagccctgc tcattgtggc ttactcttc atcattgtct tctcactct tggcaacgtc ctggtctgtc atgtcatctt caagaaccag cgaatgcact cggccaccag cctcttcac gtcaacctg cagttgccga cataatgatc acgctgctca acacccctt cacttgggtt cgttttga acagacatg gatatgtgg aaggcagt gcatgtcag cgccttggc cagtactgt cactgcactg ctcagcactg acactgacag ccattgcgtt ggatgccac caggtcata tgcacccctt gaaacccgg atctcaatca caaagggtgt catctacatc gctgtcatct ggaccatggc tacgttctt tcactccac atgtatctg catctacatc ttacacctca aatacagtga ggacattgtg cgtccctct gctgccaga ctccctgag ccagtgacc tctctggaa gtacctggac ttggccacct tcactctgt ctacatctg cctctctca tcactctgt ggcctacgt	Homo sapiens

496	160222 G Protein- Coupled Receptor GPR72	NP_057624.1	<p> cgtgtggcca agaaactgtg gctgtgtaat atgattggcg atgtgaccac agagcagtagc tttgccctgc ggcgcaaaaa gaagaagacc atcaagatgt ttagctgtgtg gtagtctctc tttgccctct gctgggttccc cctcaactgc tacgtctctc tctgttccag caaggtctatc cgcaccaaca atgcccctc cttgcccctc cactgtgttg ccatgagcag cactgtctat aaccccttca tatactgtg gctgaacag aacttcagga ttgagctaaa ggcattactg agcatgtgc aaagacctcc caagcctcag gagcagggc aacctcccc agttccttcc ttcagggtgg cctggacaga gaagaatgat ggccagagg ctcctctgc caataacctc ctgccacct cccaactcca gtctgggaag acagacctgt catctgtgga accattgtg acgatgagtt agaagaggtt ggaagaggg agtgggaggg gtctgtctcc acctgaggca gggaaagaga gctattctc acacatgac ttccagagtg tggaacacaca ctctgcaga aggctgtagg actcttgaat tcttaggaaa ctgtccagcc tcttagcccc atgtgatgtg aaaactaaa ggaccacca actagacatg tttcataaa ttccatcta agaaacatg ggaggcacag cagcctgtat ctctgagga gagcagcag gacaaagtgt gccagatgg gggctgaatc attcaactgc ctccatctgt gggcagctg ctgccttaca gcccttctca ctagactgag catcccgaag gagacctaaa tcatacttg ggtgtgtga ccagatgca cagagctctg cttgaacac gtacacggc cagggaaatg ccagcaa MVPHLLLLCL LPLVRATEPH EGRADEQSAE AALAVPNASH FFSWNNYTF S DWQNFVGRRR P YGAESQNPV KALLIVAYSF IIVFSLEGNV LVCHVIFKNQ RMHSATSLFI VNLAVADIMI TLNTPFTLV RFVNSTWIFG KGMCHVSRFA QYCSLHVSAL TLTAIADVDRH QVIMHPLKPR ISITKGIYI AVIWTMATEF SLPHAIQOKL FTFKYSEDIV RSLCLPDFPE PADLFWKYLD LATFILLYIL PLLIISVAYA RVAKKLWLCN MIGDVTTEQY FALRRKKKT IKMLMLVVVL FALCWFLPLNC YVILLSSKVI RTNNALYFAF HWFAMSTCY NPFIYWLNE NFRIELKALL SMCQRPPKPQ EDGQSPVPS FRVAWTEKND GQRAPLANL LPTSQLSGK TDLSSVEPIV TMS </p>	Homo sapiens
497	160223 G Protein- Coupled Receptor G2A	NM_013345	<p> gggaggggtg cgaggctagc cagcagggcg gggccctggg tcattttaaa ctctcagagt A gaactgtctg ataggaccga caagacgcat gacatgtact tagatagctt atcttagagc cacactgaga ttggaacccg caaaatagc caggaggaa ggtgagcaag ggacacgaca ctcaccgga taaccccaac aagcagcagc cgcctggcg gaaacccggan cctgcacac cgccggggga aggtggccn cgcacccac cgtggaaga cagcggcgan gaccccaag agatgagacg gaactgcccgt gagatccagc aatnccnact gtgggtctga ccaggatan cggaagcag gacgtgaac agccctctc atgttcttga caccgtcatt ctccagcagt cagctaaggc acagaggcag ccgagcgtct gtcagcagag tctgtgctga gcagaacacg ccacacgcca cagccacac gccacacgtg caggattgct caagatggaa gggcacagtg gaatatatat atatatatat attttggcg agaccttga ggacacactg aatacaatgg aataccatcc cgccttgaag aggaaggaa atcctggcac acgtgcaac aggaggagc ttgaggacac tgtgtgtagt ggagcagtg agacacgaa ggacacacg tgaagacacg cagagatgcc caccacgtg gggaggtgac agggagccc agcgcacaga gacaaagtgg aatggaggcc tgggggctgg gagcaaatgc ggagcagagt ctctctgggg cagagtctcc gtttgggaag atgagaaggt tctgcagac gatgctggcg atggttgcag aagaatgtga atgtgccccaa tgctactgaa aaacggttac aatggaaacg ccacccagc gaccaccat gccccgtggg cctccctggg cctctccgcc aagacctgca acaactgtc ctctgaagag </p>	Homo sapiens

498	160223	G Protein- Coupled Receptor G2A	NP_037477.1	<p>agcaggatag tcctgggtcgt ggtgtacagc gcggtgtgca cgtctgggggt gccggccaac tgcctgactg cgtgggtggc gctgctgcag gtactgcagg gcaactgtct gccgtctac ctgctctgcc tggcactctg cgagctgctg tacacaggca cgtgccact ctgggtctac tatatccgca accagaccg ctggacccta ggcctgctgg cctgcaaggt gaccgctac atcttcttct gcaacatcta cgtcagcatc ccttctcctg gctgcatctc ctgcgaccgc ttcgtggccg tgggtgacgc gctggagagt cggggccgcg gccgcccagg gaccgccatc ctcatctccg cctgcatctt catctcctgc gggatcgttc actaccgggt gtcccagag gaagacaagg agactgctt tgacatgctg cagatggaca gcaggattgc cgggtactac tacgccaggt tcaccgttgg ctttgccatc cctctctcca tcatgcctt caccacccac cggattttca ggagcatcaa gcagagcatg ggcttaagcg ctgccagaa ggccaagggtg aagcactcgg ccactcgggt ggttgctcgc ttctagtct gcttgcctc gtaccactg gttctctcctg tcaagccgc tgccttttcc tactacagag gagacaggaa cggcatgtgc ggcttggagg aaaggctgta cacagcctct gtggtgttcc tgtgctgttc cacggtgaac ggcgtggctg acccattat ctacgtgctg gccacggacc attcccgcca agaagtgtcc agaatccata aggggtggaa agagtgtcc atgaagacag acgtcaccag gctcaccac agcagggaca cggaggagt gcagtcgcc gtggcccttg cagaccacta cacttctcc aggccctgc accaccagg gtcaccatgc cctgcaaaaga ggtgattga ggagtcctgc tgagcccat gtgtggcagg gggatggcag gttgggggtc ctggggccag caatgtggtt cctgtgcact gagccacca gccacagtgc ccatgtcccc tctggaagac aaactaccaa tttctcgtc ctgaagccac tccctcctg accactggcc ccangcttcc ccacatggaa ggtggctgca tggcaagggg aagagcgaca nctccagctc tccggagacc canagagcat tgggcangca gtggggcctc ttcatatca gctgctgctg cgtgctcctc tggctgtggg cangtacacc cctgctggca gaagtacctg gtggctgccc tgttcgcatc agtggcgatg actttatttg cggagcattt ctgcaagcgt tgcctggatg cgggtgtgca ttgtgggccc tctgggctcc tgcctcaaaa tgtcagttag caccatgctg gaagtcaaca tcaactgtggc agcggccagg aaggcatagg gcancctacc acctccaang gggcangcgc cctcatctgg ggttgggt</p>	Homo sapiens
499	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NM_004767	<p>CLTAWLALLQ VLOGNVLAVY LLCLALCELL YTGTLPLWVI YIRNQRWTL GLLACKVTAY IFFCNIIYVSI LFLCICISDR FVAVVVALES RRRRRRTAI LISACIFILV GIVHYPVFQT EDKETCFDML QMDSRIAGYY YARFTVGFAI PLSIIAFTNH RIFRSIKQSM GLSAAQKAKV KHSIAIVVVI FLVCFAPYHL VLLVKAASF YVRGDRNAMC GLEERLYTAS VVFLCLSTVN GVADPIIYVL ATDHSRQEV S RIHKGWKES MKTDVTRLTH SRDTEELQSP VALADHYTFS RPVHPPGSPC PAKRLIEESC</p> <p>cgggtacagg gggcccaaga gctgggctgg ctgtctcctg ctcatccagc catcggtggg A ctgtggcccc tggctgtctc tcttgctgtg attttgctg tgggggtaag cagggtctct gggggtgccc cctgtcacct gggcaggcac agagccgaga cccaggagca gcagagccga tccaagaggg gcaccagga tgaggaggcc aagggcgtgc agcagtatgt gcctgaggag tgggcggagt accccggcc cattcacct gctggcctgc agccaacca gcccttgggtg gccaccagcc ctaaccccca caaggatggg ggcaccccca acagtgggca ggaactgagg ggcaatctga cagggggcacc agggcagagg ctacagatcc agaaccctt gtatccgggtg</p>	Homo sapiens

500	160224 Endothelin Type B Receptor- Like Protein 2 (ETBR-IP- 2)	NP_004758.1	<p>accgagagct cctacagtgc ctatgccatc atgcttctgg cgtggtggtg gtttgcgggtg ggcattgtgg gcaacctgtc ggtcatgtgc atcgtgtggc acagtacta cctgaagagc gcctggaact ccatccttgc cagcctggcc tcttggttcc cttttcttgc ctccctattg tcatcttcaa cagatcacc aagcagaggc tactgggtga cgtttctgtg cgtgccgtgc ccttcatgga ggtctcctct ctgggagtc cagctttcag cctctgtgcc ctgggcattg accgttcca cgtggccacc agcacctgc ceaaggtgag gcccatcgag cgtgccaat ccatcctggc caagtggct gtcattctgg tgggtccat gacgtggct gtgctgagc tctgtgtg gcagtggca caggagcctg ccccaacct gggcacctg gactcatgca tcatgaaacc ctacgccagc ctgcccagc cctgtattc actggtgatg acctaccaga agcccgcct ggtggtgtac ttgggtgct acttctgct gccatctc ttcacagtca cctgccagc ggtgacatgg cgggtgcgag gcccaccag gaggaagtc gagtgcaggc ccagcaagca cagcagtggt gagagccag tcaacagcac cgtggtggc ctgaccgtgg tctacgctt ctgacccctc ctgagaacg tctgcaacat cgtggtggc tacctctcca ccgagctgac ccgccagacc ctgacccctc tgggctcat caaccagtc tccaccttct tcaaggcgc catcaccca gtgctgtcc ttgcatctg caggccgtg ggcaggcct tctggactg ctgctgtgc tgcgtgtg aggagtgcg cggggtctg gaggcctctg ctgccaatgg gtggacaac aagctcaaga ccgaggtgtc ctctccatc tacttccaca agcccaggga gtacacccca ctctgccc tgggacacac ttgctgaggc cccagtaggg gtgggaggg agggagagg cgccacccc gcggtgtct gctgtctt ccccataggt cttgcttctg tgcctgtct gctgtctagg gatgacttg gttcctctt tcaagggttg ggaatccg</p>	Homo sapiens
501	160225 Sphingolipid Receptor Edg6	NM_003775	<p>gagtcagccc ccgggggagg ccatgaacgc cacggggacc ccggtggccc ccgagtctg A ccaacagctg gcggccggcg ggcacagcg gctcattgt ctgcactaca accactcggg ccggtggcc ccggcgggg ggcgggagg tggcgccctg ggggcccctg cggggtgtc ggtggccgc agctgctgg tgggtctgga gaacttgcgt gtgctggcg ccataccag ccacatgcg tcgcgacgt ggtctacta ttgctggtg aacatcacgc tgagtgaact gtcacgggc gcggcctacc tggccaagt cctgtcttc acgcccctg ccttccgtc ggcgcccgc cagtggctc tacgggagg cctgtcttc acgcccctg ccgctccac cttcagcctg ctcttactg caggggagc ctttgccacc atggtgcggc cgggtggcga gagcggggc accaagacca gccgcgtcta cggcttcat cggcctgtg ggtgctggc cgcgctgctg gggatgctg cttgtctgg ctggaactgc cgtgctgct ttgaccgtg ctccagcct ctgcccctct actccaagg ctacatctc ttctgctgg tgatcttgc</p>	Homo sapiens

502	160225	Sphingolipid NP_003766.1	Receptor Edg6	<p> cggcgctctg gccaccatca tgggacctata tggggccatc ttcggcctgg tgcaggccag cgggcagaag gcccacgccc cagcgcccg cgcgaaggcc cgcgcctgc tgaagacggg gctgatgac ctgctggcct tcttggtgtg ctggggccca ctctggggc tgcctgggc cgactcttt ggctccaaac tctgggcca ggaatcacct cgggcatgg actggatcct ggccctggcc gtctcaact cggcggtcaa cccatcacg tctctctcc gcagcaggga ggtgtgcaga gccgtgctca gcttctctctg ctggcggtgt ctcggcctgg gcatgcgagg gcccggggac tgcctggccc ggcccgctga ggctcactcc ggagcttcca ccaccgacag ctctctgagg ccaagggaca gcttctcgcg ctcgcgtcg ctcagcttcc ggatgcggga gcccctgtcc agcatctcca gcgtgcggag catctgaagt tgcagctctt cgtgtggatg gtgcagccac cgggtgcgtg ccaggcagg cctcctgggg tacaggaagc tgtgtgcacg cagcctcgcc tgtatggga gcagggaac ggacaggccc ccatggtctt cccggtggcc tctcggggct tctgacgcca aatgggcttc ccatggtcac cctggacaag gaggtaacca ccccacctcc ccgtaggagc agagagcacc ctggtgtggg ggcgagtggt tccccacaac cccgcttctg tgtgattctg gggaagtccc gcccctctc tgggctcag tagggctccc aggctgcaag gggtggaactg tgggatgcat gccctggcaa catgaaagt cgaatcatggt aaaaa </p>	Homo sapiens
503	160228	T-Cell Death-Associated Gene 8 (GPR65)	NM_003608	<p> atgaacagca catgtattga agaacagcat gacctggatc actatttgtt tccattgtt A tacatcttg tgattatagt cagcattcca gccaatattg gatctctgtg tgtgtcttc ctgcaaccca agaaggaaag tgaactagga attacctct tcaattgttc actatcagat ttactctatg cattaaactct cctttatgg attgattata ctggaaataa agacaactgg actttctctc ctgccccttg caaaggaggt gctttctca tgaacatgaa gttttacagc agcacagcat tctcacctg cattgccgt gatcggtatt tggctgtgtg ctacctttg aagttttttt tcttaaggac aagaagaatt gcactcatgg tgcgctgtc catctggata ttggaaacca tcttcaatgc tgtcatgttg tgggaagatg aaacagttgt tgaatattgc gatgccgaaa agtctaattt tactttatgc tatgacaaat acccttaga gaaatggcaa atcaacctca acttggtcag gacgtgtaca ggctatgcaa taccttttgt caccatcctg atctgtaacc ggaagtcta ccaagctgtg cggcacaata aagccacgga aaacaaggaa aagaagagaa tcataaaact acttgtagc atcacagtta ctttgtctt atgctttact ccctttcatg tgatgtgtgt gattcgtgc atttagagc atgctgtgaa cttcgaagac cacagcaatt ctgggaagcg aacttacaca atgtatgaa tcacggttgc attaacagt ttaaattgtg ttgtgtatcc aattctgtac tgttttgta ccgaacagg aagatatgat atgtggaata tattaaaatt ctgcactggg aggtgtaata catcaaaa acaagaaaa cgcatacttt ctgtgtctac aaaagatact atggaattag aggtccttga gtag </p>	Homo sapiens

504	160228	T-Cell Death- Associated Gene 8 (GPR65)	NP_003599.1	MNSTCIEEQH LLYALTPLW KFFFLRTRI INLNLFRTCT PFHVMLLIRC MWNILKFCTG	DLDHYLFPV IDYTWNKDNW ALMVSLSIWI GYAIPVITL ILEHAVNFED RCNTSQRQRK	YIFVIVISIP TFSPALCKGS LETIFNAVML ICNRKVYQAV HSNSGKRTYT RILSVSTKDT	ANIGSLCVSF AFILMYMKFYS WEDETVEYC DAEKSNTFLC RHNKATENKE MYRITVALTS MELEVL	LQPKKESELG STAFLTCTIAV DRYLAVVYPL YDKYPLEKWQ ITVTFVLCT LNCVADPILY	IYFLSLSLSD P	Homo sapiens
505	160300	Encephalopsi n	NM_014322	cgagcccg ctcggggaac ggggccggcg gcgcctggcg gctcgtcctc catcagccctc cctgaggaac cctcttcggg cgtggtccat gctctactca cgtacacgga tgtgcttttc tggccatatt agtgatcaag caccttcctg tgttcacctg tgtatacaat gcttctgtgc aagtgaatg aaaagtgcac agttgacgac tttgtaggaa ctttcatcat aaccttggtg ttgaacaaaa tgcacacgat tatatttttt tactgtaaaa tttgactagt taattctaga gtatgacaaa cagaggaatc gactcaaaag tgctatataa atttccca	cgcaagctga cgcagcggcg cggcggggga ctcgcattgg tactacaagt agcgacctgc ggctgggtgt attgtttcca gccagagtga ctggcgtggg ctgtggactg ttatttcttg ctatatccca atgttataat gtctgttgga gtcactccaa ccagtgtatt ctccgactgc cagatcagac ttcaactctt agcgacaaaa tgaaggatgg cctcctgaag tccagcagga acaaattctt gggcatctaa aaattactct ataactgtcg tggactctat atgaaaaaga gaggagtctt tacaaggcaa tcttttctt gccagggagt tatatatatt	cgccctcgc gccacggcta cactgagccc gtccattgg tcagcgggt tgggtacct gggacacct ttgccacct tcaattttc caggagcacc ctgtggactg ctgtggactg gtgcctgtg ttcgaaatgct atgaaaagaa tgccttatat cgaatattct atgtcttcat tgaggtgcca ccattgtgat cttccatcat ccattgggt caacgaaaag aagaagtgtc aatccgaatt ttaatccaac catcatcatc attttccaaa cgtacacatg tcagtgtcat aaatcctctt agagacaact actcccatat tgttttgttg tctaaagcgc atatacccg	cgccggcgcc ggcggggcgc ttcagcccc gtcgtctggc cgccactccc cttcggggtc accttaacct tgggtgcctg gggctgcgtg aacctgtctg ctgggcctgg tctcctggga gaaatccaa gggtgccccg tcgtgtgtg actggccaaa atgtgctttt tctgtgtg ctctttgcta tttcgaagat tggcgaagat gagcctgct gtcacagaaa ttttatcatc ccaaagtgtg tggggcctta aattggatgc gttctatgta tggaataccc gccccatgc gggtgcttta cataatgaaa ttggaatgtg acacgtaatg tgtgaagttag gtcctatatc gttgaaaaa aaatcctctt ttgaatcctt cgtacacatg tcagtgtcat aaatcctctt agaccagcac tgccccata tctttgtcga attccccgtg tataaaaaa	Homo sapiens		

506	160300	Encephalopsi n	NP_055137.1	MYSGNRSGGH LVVLVYKFKQ GSLFGIVSIA LDVHGLGCTV IQVTKILKYE NTVYNPVIYV KKKVTFNSSS	GYWDGGGAAG RLRTPHLLL TLTVLAYERY DWKSKDANDS KKLAKMCFILM FMIRKFRSL IIFIITSDES	AEGPAPAGTL VNISLSDLLV IRVVHARVIN SFVLFLFLGC IFTFLVCWMP LQLLCLRLLR LSVDDSDKTI	SPAPLFSPGT SLFGVTFTFV FSWAWRAITY CYGHILYSIR YIVVICFLVN CQRPAPKDLPA GVQSLMLIQV	YERLALLLGS SCLRNGWVWD IWLVSRAWAG CYGHILYSIR GHGHILVTPTI AGSEMQRIRPI RPL	IGLLGVGNL TVGCVWDGFS APLLGWNRYI MLRCVEDLQT SIVSYLFAKS VMSQKDGRP	P Homo sapiens
507	160312	Sphingolipid Receptor Edg5	NM_004230	atgggcagct accaaggaga gtcatcctct aacagcaagt ctggcaggcg acgcctgtgc ttcagcctcc ggcagcgaca gtcctcggtg actgtcctgc atcctgttgg gtgacatagg gtcttatatcg gtccactcct tcctctgtca cggccgctgc cggggccacc ccacagtcac	tgtaactcggg cgctggaaac gttgcgccat tccactcggc tggccttcgt agtgttttgc tggccatcgc agagctgcgc gcctgcccac ctctctacgc ccatcgtggc cgcecccgca tctgtgtggt gcccgatcct accccgatcat acctcctggc acctcctggc ccacgtttct	gtacctgaac gcaggagacg tgtgttgtaa aatgtacctg agccaatacc ccgggagggc cattgagcgc catgtcttcg ccttggtcgc caagcattat cctgtacgtg gacgtacgc cgctcagcc tctgtcgttc gcccgccttc ctacaaagcc ctacacgtgg gcccgggggtg actccgcagc ggaggggcaac	ccccaaagg acctcccgcc aaccttctgg ttcttgggca acctggccgc tctgtctctg tctgtgtcac tcaagctctc ttgccaaagg cacgtggcca ctcatcgggg aactgcctgg gtgctgtgcg cgcatctact cgcagccggg ggggtgcaag tccagctccc acggtggctc	tgacaggaaca aggtggcctc tgctcattgc acctggccgc ctcctgatcta gctctgtcac tcaagctctc ttgccaaagg cctcgtggct gccacctcga tgggtgacct gctgtgtccc tctcgtcttc cgaggtgact acactacttt cgcagccggg gacggaggcg tggagagggg acggtggctc	ctataattat ggccttcac ggtggcccg cctcctcga ctcctgatcta gctctgtcac tcaagctctc caagctgtat catcctgcgt gccacctcga tgggtgacct tgcctgtccc tctcgtcttc cgaggtgact cttttcaccc gacgacacgta gccccgcgtc ctcgggtcgt gcgggaccac gacgcctcgt cttcgacctc gctgtcctat gtggtgacct gtggagaggc ctcagtgacc tgctcatcac	A Homo sapiens
508	160312	Sphingolipid Receptor Edg5	NP_004221.1	MGSLYSEYLN NSKPHSAMYL FSLIAIAIER TVLPLYAKHY VFIVCWLPAF RPLQCWRPGV	PNKVQGHYNY FLGNIAASDL HVAIAKVKLY VLCVVTFISI SILLLDYACP GVQRRRVGT	TKETLETQET LAGVAFVANT LGASVTLRL GSDKSCRMLL ILLAIAVALY VHSCFILYKA PGHLLPLRS	TSRQVASAFI TPQWFAREG LIGASVTLL LLGSLPILGW RIYCVWRSSH HYFFAVSTLN SSSLERGMHM	VILCCAIVVE SASITLSASV NCLGHLEACS ADMAAPQTIA SLINPVIYTW PTSPTFLEGN	NLLVLIHAVAR SASITLSASV NCLGHLEACS LLKTTVTIVLG RSRDLRREVL TVV	P Homo sapiens
509	160314	G Protein- Coupled Receptor GPR103	AF411117	atgatctgct ggcattgtgat gcccaactgc acagcaatgc aacctgacgc gagctgccgg gcaatctttg gtcaccaca	gcagtgctct tagcaaaactc ggggaatatgt aggcgcttaa gggagcagtt gacgcgcaa gctgtctct tctttatctg	gagccctagg atcacctagac taggcgcctg cattaccgcc cattgcagtt gctggccctc ggtgttctac ctccttggcg	attcatcttt atcgtactac cattgcggtg gagcagttct taccggtcgc gtgtcacccg gtggtgacct ctcagtgacc	cttttcaccc acgacacgta gccccgcgtc ctcgggtcgt gacgcctcgt gctgtcctat cttcgacctc tagcctgact	tagcctgact ctacgttgt cggggaccgc gcgggaccac cttcgacctc cttcgacctc catgcgacct catgcgacct	A Homo sapiens

510 160314 G Protein- ENSMPRT2217 53
 Coupled
 Receptor
 GPR103

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atccccgtca ccattgtcca gaacatttcc gaaaactggc tgggggggtgc tttcatttgc
 aagatgggtgc catttgtcca gtctaccgtt gttgtgacag aaatcctcac tatgacctgc
 attgctgtgg aaaggcacca gggacttgtg catcctttta aatgaagtgc gcaatacacc
 aaccgaaggc ctttcacaat gctagggtgtg gttcggctgg tggcagtcac cgtaggatca
 cccatgtggc agtgcaca acttgagatc aaatagact tccatatga aaaggaacac
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 acagtgggtg ctctctttgc tgtgtgctgg gcaccattcc atgtgttcca tatgatgatt
 gaatacagta atttgaaaa ggaatatgat gatgtcaca tcaagatgat ttttgcctac
 gtgcaaatga ttggattttc caactccatc tgtaatccca ttgtctatgc atttatgaat
 gaaaacttca aaaaaaatgt tttgtctgca gtttgttatt gcatagtaaa taaaaccctc
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 tccctcagag agaattccagt ggaggaaacc aaaggagaag cattcagtga tggcaacatt
 gaagtcfaat tgtgtgaaca gacagagagg aagaaaaaag tcaaacgaca tcttgccttc
 ttaggtctg aactggctga gaattctct ttagacagt ggcattaa
 MKIKYDFLYE KEHICCLEW TSPVHQIYT TFIILVILFL PLMVMLILYS KIGYELWIKK P
 RVGDGSLRT IHGKEMSKIA RKKKRAVINM VTVALFAVC WAPFHVHMM IEYSNFEKEY
 DDVTIKMIFA IVQIIGFSNS ICNPIVYAFM NENFKKNVLS AVCYCIVNKT FSPAQRHGNS
 GITMRKKAK FSLRNPVEE TKGEAFSDGN IEVKLCEQTE EKKKLRHLA LFRSELAENS
 PLDSG

511 160317 Neuropeptide NM_004885
 FF 2
 Receptor

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tctggagcca agtaaatggtg atactgatgc ttccttttct ttgcgcgcgt cggattctga A
 gtttcacaag aatgtacctg ggtgcccctt agcgggatat gaatagcttc ttcggaaccc
 cagcgggcag ctgtgtcctc ctgaaaagt gactctcat tgcacccgag aaggaggcgg
 ggaggagcg cagagcactc agcgtccagc agcgcggcgg gccagccctgg agcggaaagcc
 tggagtggag caggcagtc gccgggggaca gacgtcggct gggattgagc cggcagactg
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 tgtactcaga tattaatat accatatgtga actactatct tcaccagcct caagtggcag
 caatcttcat tatttctac ttctgtatct tctttttgtg catgatggga aatactgtgg
 ttgtctttat tgtaatgagg aacaaacata tgcacacagt cactaatctc ttcactctta
 acctggccat aagtattta ctagtggca tattctgcat gcctataaca ctgctggaca
 atattatagc aggatggcca ttgggaaaca cgaatgtgcaa gatcagtga ttggtccagg
 gaatatctgt cgcagcttca gtccttaact tagttgcaat tctgtagat aggttccagt
 gtgtgggtca cctttttaa ccaaaagctca ctatcaagac agcgtttgtc attattatga
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 acatctacct ggctcccttc tccctcattg tcatcatgta tggaaaggatt ggaatttcac
 tcttcagggc tgcagttcct cacacagga ggaagaacca ggagcagtg cagctgggtg
 ccaggaaaaa gcagaagatc attaagatgc tccgtattgt ggccctgctt tttattctct

512	160317	Neuropeptide NP_004876.1 FF 2 Receptor	catggctgcc cctgtggact ctaatgatgc tctcagacta cgctgacctt tctccaaatg aactgcagat catcaacatc tacatctacc ctttttgaca ttggctggca ttgggcaaca gcagtgtaaa tcccatcatt tatggtttct tcaacgagaa tttccgccgt ggtttccaag aagctttcca gctccagctc tgccaaaaaa gagcaagcc tatggaagct tataccctaa aagctaaaaa ccatgtgtct ataacacat tgccacagt tctccaggaa tctacatttc aaaaccctca tggggaaacc tgctttata ggaagaagtc tgaaaaaccc caacaggaat tagtgatgga agaattaaaa gaaactacta acagcagtg gatttaaaaa gagctagtgt gataatcccta actctactac gcattatata tttaaatcca ttgctttttg ttgctttgca cttcaaaattt ttcaagaagt gttctaataa aaacatttac tgaagccct ctctggcaaa aaaattaaaa ataaacaaaa atggtcataa gatcataaac aatcttatgt tgtataaaaa tacgtagagt gacttagaca tgtttgcatg aataaatata tttctagaga acagttaaaa aaaaaaaaaa aaaaaa	160324	G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ 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Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein- Coupled
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[illegible]

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517	160330 G Protein- Coupled- Receptor TM7XN1/GPR56	NM_005682	cggcagcagg gtctcgctct gtacacacagg ctggagtgca gtgggtgtgat cttgggtcat A	Homo sapiens
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518	160330 G Protein- Coupled- Receptor TM7XN1/GPR56	NP_005673.1	<p>acgggactca gaagtgcgcc gccatgctgc ctaggggtact gtccccacat ctgtcccaac</p> <p>ccagctggag gccctggtctc tccttacaac cccctggggc agccctattg ctggggggcca</p> <p>ggccttgat ctgaggggtc tggcacatcc ttaactctgt gccctgcct gggacagaaa</p> <p>tgtggtcca gttgctctgt ctctgtgtgt caccctgagg gcaactgtca tcctctgtca</p> <p>ttttaacctc aggtggcacc cagggcgaat gggggccagg gcagaccttc agggccagag</p> <p>ccctggcgga ggagaggccc ttigccagga gcacagcagc agctgccta cctctgagcc</p> <p>cg</p>	Homo sapiens
519	160387 Glucagon- Like Peptide 2 Receptor	NM_004246	<p>MT PQSLLQTT LFLSLFLV QGAHGRGHR DFRFCQRNQ THRSLSHYKP TPDLRISIEN P</p> <p>SEALTVHAP FPAHPASRS FPDPRGLYHF CLYWNHRAGR LHLYGKRD F LLSDKASSLL</p> <p>CFQHQEESLA QGPPLATSV TSWSPQNIS LPSAASFTFS FHSPHTAAH NASVDMCELK</p> <p>RDQLLSQFL KHPOKASRRP SAAPASQQLQ SLESKLTSVR FMGDMVSFEE DRINATVWKL</p> <p>QPTAGLQDLH IHSRQEEEQS EIMEYSVLLP RTLFQRTKGR SGEAEKRLLL VDFSSQALFQ</p> <p>DNSSQVLGE KVLGIVQNT KVANLTPVV LTFQHQLOPK NVTLQCVFV EDPTLSSPGH</p> <p>WSSAGCETVR RETQTSFCFN HLTIFYAVLMV SSVEVDVHK HYLSSLVYVG CWSALACL V</p> <p>TIAAYLCSRV PLPCRKPRD YTIKVHNNLL LAVFLDTSF LLSEPVALTG SEAGCRASAI</p> <p>FLHFSLLTCL SWMLEGYNL YRLVVEVFGT YVPGYLLKLS AMWGFPPIFL VTLVALVDVD</p> <p>NYGPIILAVH RTEGVLYPS MCWIRDSLVS YITNLGLFSL VFLENMAMLA TMVQILRLR</p> <p>PHTQKWSHVL TLLGLSLVLG LPWALIFFSF ASGTFQLVLV YLFSIITSFQ GLFIFIWYS</p> <p>MRLQARGGPS PLKNSDCAR LPISSGSTSS SRI</p> <p>atgaagctgg gatcagcag gccaggcct gggagaggaa gcgcgggact cctgcctggc A</p> <p>gtccacgagc tgcctatggg cctccctggc cccctggggg cagtcctct cctctccac</p> <p>agaaagtgc ctctctggg cctctgggag cctctccca cctctgctc gctggtttcc</p> <p>atcaagcaag ttacaggatc cctccttgag gaaacgactc ggaagtgggc tcagtaaaaa</p> <p>caggcatgc tgagagactt actcaaggaa cctctgggca tatttgtaa cgggacattt</p> <p>gatcagtagc tgtgttgccc tcattctct cctggaaaatg tctctgtacc ctgcccctca</p> <p>tacttacctt ggtggagtga agagagctca ggaaggcct acagacactg cttggctcag</p> <p>gggacttggc agacgataga gaaacccacg gatatttggc aggatgactc cgaatgctcc</p> <p>gagaaccaca gcttcaagca aaacgtggac cgttatgctt tgcgtcaac cttgcagctg</p> <p>atgtacaccc tgggatactc ctctctctt atctccctct tcttggtctt caccctctc</p> <p>ttgtttcttc gaaaactcca ctgcacgcgc aactacatcc acatgaactt gtttgcttct</p> <p>ttcatcctga gaacctggc tgtactggtg aaggacgtcg tcttctacaa ccttactcc</p> <p>aagaggcctg acaatgagaa tgggtgggatg tcctacctgt cagagatgct cactcctgc</p> <p>cgtcagtcoc aggttctctt gcattacttt gtgggtgcca attacttatg gctgctggtt</p> <p>gaaggcctct acctccacac gctgctggag cccacagtgc tctctgagag gcggtgtgg</p> <p>cccagatacc tgcgttggg ttgggcccctc cctgtgctat ttgtgtacc ctggggtttc</p> <p>gcccggtcac acctggagaa cacagggtgc tggacaacaa atgggaataa gaaaatctgg</p> <p>tggatcatcc gaggacccat gatgctctgt gtaacagtca attcttcat cttcctgaaa</p> <p>attctcaagc ttctcatctc taagctcaaa gctcatcaaa tgtgcttcag agattataa</p> <p>tacagattgg caaaatcaac actggtcctc attcctttat tggcgcttca tgagatcctc</p> <p>ttctctttca tcaatgatga tcaagttgaa ggatttgcaa aacttatcag acttttctt</p> <p>cagttgacac tgagctcctt tcatgggttc ctggtggcct tgcagtatgg ttttgccaat</p>	Homo sapiens

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521	160388	Latrophilin-1	Latrophilin-1	ttttttttt ttttttct aatttttgggt cggcgggcgt gctgggccag gggaaggag A ggacacggag gccgcccctcg tcccgcacc tctaccccg tccccccag ccccgctcc ggagatgtg ccggcgggg ggcccgggtt cgccagccg caggagagac agctgggcc gacccagag aggcgtgga caggctggtg gtccaggcgg agctgctgc caggtgatgt ggggcaagc ccccgaca ggcactgag agctcgagc agcacccgg ctgccaccat ggccgccta ccgcagtg cctggaatct gtgtgtcac gccgtcctgg tcacctggc caccaaggc ctgagccggg ccgggctccc gtccggctg atgcggggg agctggcgtg tgaaggctac cccatcgagc tgcggtgcc acaagattg cgatgctgac ctttccaga tggagaatg caactacggg cgacgggacg acaagattg cgtgctgac ctttccaga tggagaatg gcagtgtac ctgcccggac ctttcaagat catgtcacag aggtgtaaca accgcacca gtcgtggtg gtgcggcgt cggatgcct tctgacccc tgcctggga cctacaagta cctggaggtg cagtacgact gtgtcccta caaaggtag cagaaagtct tctgtgccc aggaccctg cagaaggtag tggagccac ctcgacacac gactcagagc accagtctgg cgatggtg aaggacccg tgcaggcggg tgaccgcac tactgtagc cctggatccc ctaccgcag gacacactga ctgagtatg ctcgtgggag gactacgtgg ccgcccggca caccaccac taccgctgc ccaaccgct ggatggcaca ggctttgtgg tctacgatgg tgccgtctt tacaacaagg agcgacgg caacatctc aagtatgacc tacggacgg catcaagagc ggggagacgg tcatcaatac cgccaactac catgacacct cgcctaccg ctggggcggg aagaccgaca ttgacctggc ggtggacgag aacgggctgt ggtcatcta cgccactgag ggcaacaac ggcggtggt ggtgagccag ctgaacccct acacactg ctttgagggc agtgggaga cgggttacga caagcgtcg gcatccaaag ccttcattgt gtgtgggtc ctgtacgtcc tgcgtccgt gtacgtggat gatcaaacg aggcggtg caaccgctg gactatgcct tcaacaccaa tgccaaaccg gaggagcctg tcagcctcac cttccccaac cctaccagct tcatctctc cgttgactac aacctcgcg acaaccagct gtacgtctg acaactatt tctgtgtgctg ctacagcctg gagttcgggc cgcccagccc	Homo sapiens

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523 160390 Cadherin EGF NM_001408
 IAG Seven-
 Pass G-Type
 Receptor 2
 (CELSR2)

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Homo
 sapiens

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Homo
sapiens

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gaaggagatg ttagagaagg acaaatgcag ctggttataa gtctttaatc atacagctaa
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aaggtgccta ttctttttt

SEQ ID NO:	Gene	Source ID	LPID	Peptide	SpeciesName
692	5-HT1A Receptor	P08908	595	CAPASFERKERNAEAKRKM	Homo sapiens
693	5-HT1A Receptor	P08908	608	GRIFRAARFRIRKTVKVE	Homo sapiens
694	5-HT1A Receptor	P08908	610	RTPEDRSDPDACTISK	Homo sapiens
695	5-HT1A Receptor	P08908	612	RHGASAPQPKKSVNGE	Homo sapiens
696	5-HT1B Receptor	P28222	585	KQTPNRTGKRLIRAQLTD	Homo sapiens
697	5-HT1B Receptor	P28222	586	SPGSTSVTSINSRVPD	Homo sapiens
698	5-HT1B Receptor	P28222	588	KVRVSDALLEKKLMA	Homo sapiens
699	5-HT1B Receptor	P28222	599	ANLSSAPSQNCsAKD	Homo sapiens
700	5-HT1D Receptor	P28221	577	IKLADSALERKRISAA	Homo sapiens
701	5-HT1D Receptor	P28221	588	QEASNRSLNATETSEA	Homo sapiens
702	5-HT1D Receptor	P28221	589	RIYRAARNRILNPPSL	Homo sapiens
703	5-HT1D Receptor	P28221	590	KAQEEMSDCLVNTSQIS	Homo sapiens
704	5-HT1E Receptor	P28566	815	RHLSNRSTDSQNSFASC	Homo sapiens
705	5-HT1E Receptor	P28566	817	CTEASMAIRPKTITEKM	Homo sapiens
706	5-HT1E Receptor	P28566	818	DNDLDHPGERQGISST	Homo sapiens
707	5-HT1E Receptor	P28566	2738	CVSDFSTSDPTTEFEK	Homo sapiens
708	5-HT1E Receptor	P28566	2739	RIYHAAKSLYQKRGSSR	Homo sapiens
709	5-HT1F Receptor	P30939	604	ESGEKSTKSVTSYVL	Homo sapiens
710	5-HT1F Receptor	P30939	606	DKCKISEEMSNFLAWLG	Homo sapiens
711	5-HT1F Receptor	P30939	864	IAKEEVNGQVLLEGE	Homo sapiens
712	5-HT1F Receptor	P30939	869	STVRSLSRSEFKHEKSWR	Homo sapiens
713	5-HT2A Receptor	CAA01675.1	1106	DAFNWTVDSERNLNLS	Homo sapiens
714	5-HT2A Receptor	CAA01675.1	1107	FGLQDDSKVKEGSC	Homo sapiens
715	5-HT2A Receptor	CAA01675.1	1108	PGSYTGRRTMGSSINEQKAC	Homo sapiens
716	5-HT2A Receptor	CAA01675.1	1109	CSMVALGKGHSEEAASKDNSD	Homo sapiens
717	5-HT2A Receptor	CAA01675.1	1110	NTIPALAYKSSQLQMGQ	Homo sapiens
718	5-HT2B Receptor	P41595	1111	KGIEDVDNPNNTIC	Homo sapiens
719	5-HT2B Receptor	P41595	1112	CSSPEKVAMLDGSRKDKA	Homo sapiens
720	5-HT2B Receptor	P41595	1113	RTSTIGKKSVQTISNE	Homo sapiens
721	5-HT2B Receptor	P41595	1114	CNYRATKSVKTLKRSSK	Homo sapiens
722	5-HT2B Receptor	P41595	1187	SGLQTESIPEEMKQIVEEQG	Homo sapiens
723	5-HT2C Receptor	P28335	1115	CKRNTAEENSNPNQDQNA	Homo sapiens
724	5-HT2C Receptor	P28335	1116	GHTEEPPLSLDFLC	Homo sapiens
725	5-HT2C Receptor	P28335	1117	CNYKVEKKPPVRQIPRV	Homo sapiens
726	5-HT2C Receptor	P28335	1118	IGLRDEEKVFVNNTIC	Homo sapiens

727	134	5-HT2C Receptor	P28335	1119	RHTNEPVIEKASDNEP	Homo sapiens
728	134	5-HT2C Receptor	NP_000859.1	1826	RNAVHSFLVHLGLLVWQCD	Homo sapiens
729	134	5-HT2C Receptor	NP_000859.1	1829	CDISVSPVAIVTDIFNTSD	Homo sapiens
730	134	5-HT2C Receptor	NP_000859.1	1830	DGGRFKFPDGVQNWPAIS	Homo sapiens
731	136	5-HT4 Receptor	CAA73107.1	654	NINIGIDUEKRKFNQ	Homo sapiens
732	136	5-HT4 Receptor	CAA73107.1	655	ESRQSDAQHSTHRMR	Homo sapiens
733	136	5-HT4 Receptor	CAA73107.1	656	CDDERYRRPSILGQTV	Homo sapiens
734	136	5-HT4 Receptor	CAA73107.1	657	RDAVECGGQWESQCHPPATS	Homo sapiens
735	136	5-HT4 Receptor	CAA73107.1	2682	TAKEHAHQIQLQIRAGASSESRP	Homo sapiens
736	136	5-HT4 Receptor	CAA73107.1	2683	KSFRRAFLIILCCDDE	Homo sapiens
737	136	5-HT4 Receptor	CAA73107.1	2684	TAKEHAHQIQLQIRAGA	Homo sapiens
738	136	5-HT4 Receptor	CAA73107.1	2685	KEHAHQIQLQIRAGA	Homo sapiens
739	136	5-HT4 Receptor	CAA73107.1	2686	TAKEHAHQIQLQIR	Homo sapiens
740	138	5-HT6 Receptor	P50406	649	RTPRPGVESADSRRLATK	Homo sapiens
741	138	5-HT6 Receptor	P50406	650	CPRERQASLASPSLRIS	Homo sapiens
742	138	5-HT6 Receptor	P50406	652	PLFMRDFKRALGRFLPC	Homo sapiens
743	138	5-HT6 Receptor	P50406	653	RAAAAVNFFNIDPAEPE	Homo sapiens
744	139	5-HT7 Receptor	P34969	658	EVTASPARTWDAPPDNASGC	Homo sapiens
745	139	5-HT7 Receptor	P34969	659	KAARKSAKHKFGFPRVE	Homo sapiens
746	139	5-HT7 Receptor	P34969	660	CANLSRLKHERKNISIFKR	Homo sapiens
747	139	5-HT7 Receptor	P34969	663	KLAERPERPEFVLIRAC	Homo sapiens
748	272	Adenosine A1 Receptor	AAA17544.1	8	CHKPSILTYIAFLT	Homo sapiens
749	272	Adenosine A1 Receptor	AAA17544.1	9	NGSMGEPVVKCEFEKVISME	Homo sapiens
750	272	Adenosine A1 Receptor	AAA17544.1	10	NKKVSASSGDPQKYGKELK	Homo sapiens
751	272	Adenosine A1 Receptor	AAA17544.1	11	NDHFRCCQPAPIDEDLPEER	Homo sapiens
752	272	Adenosine A1 Receptor	P25099	286	CQKPPIDEDLPEEKAED	Rattus norvegicus
753	272	Adenosine A1 Receptor	P25099	302	QPKPPIDEDLPEEKAED	Rattus norvegicus
754	272	Adenosine A1 Receptor	AAA17544.1	303	MPPSISAFQAAAYIGIEVL	Homo sapiens
755	273	Adenosine A2a Receptor	P29274	1237	QGNTGLPDVELLSHELKGV	Homo sapiens
756	273	Adenosine A2a Receptor	P29274	1238	MPIMGSSVITVELAIA	Homo sapiens
757	273	Adenosine A2a Receptor	P29274	1239	RSHVLRQGEFFKAAGT	Homo sapiens
758	273	Adenosine A2a Receptor	P11617	1240	RIREFRQTRKIRSH	Canis familiaris
759	274	Adenosine A2b Receptor	P29275	676	KDSATNCTEPWDGTTNES	Homo sapiens
760	274	Adenosine A2b Receptor	P29275	677	CRQLQRTELMDHSRITLQRE	Homo sapiens
761	274	Adenosine A2b Receptor	P29275	678	RNRDFRYTFHKISRYLLC	Homo sapiens
762	274	Adenosine A2b Receptor	P29275	679	CQADVKSNGNGQAGVQP	Homo sapiens

763	274	Adenosine A2b Receptor	P29275	680	CVTLFQPAQGKPKW	Homo sapiens
764	274	Adenosine A2b Receptor	P29275	2714	MLLETQDALYVALELVIAAL	Homo sapiens
765	275	Adenosine A3 Receptor	P33765	683	IFYIIRNKLSLNSNSKE	Homo sapiens
766	275	Adenosine A3 Receptor	P33765	686	NIMKLSEYHNRNVFLSC	Homo sapiens
767	275	Adenosine A3 Receptor	P33765	687	AYKIKFKETYLLILKAC	Homo sapiens
768	275	Adenosine A3 Receptor	P33765	689	TGAFYGREFKTAKSLF	Homo sapiens
769	275	Adenosine A3 Receptor	P33765	2296	KRVTHRRIRWLALGLC	Homo sapiens
770	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	4	CPRVVLPEEIFFTIS	Homo sapiens
771	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	5	MGYLKPRGSFETTADDIIDS	Homo sapiens
772	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	6	RYHSIVTMRRTVVLT	Homo sapiens
773	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	7	AFRSPELRDAFKKMIFC	Homo sapiens
774	376	Alpha 1d-adrenoceptor	AAA35496.1	12	RSTRSLSEAGVKRERGKASE	Homo sapiens
775	376	Alpha 1d-adrenoceptor	AAA35496.1	13	KEVPDPDEFCEGITEEAG	Homo sapiens
776	376	Alpha 1d-adrenoceptor	AAA35496.1	14	RSTEMVQRLRMEAVQ	Homo sapiens
777	376	Alpha 1d-adrenoceptor	AAA35496.1	15	PRPSCAPKSPACRTRSP	Homo sapiens
778	377	Alpha 1b-adrenoceptor	P35368	696	KEMNSKELTRLHSK	Homo sapiens
779	377	Alpha 1b-adrenoceptor	P35368	697	GGSLERSQSRKDSLDDSGSC	Homo sapiens
780	377	Alpha 1b-adrenoceptor	P35368	698	APEPPGRRGRHDSGPL	Homo sapiens
781	377	Alpha 1b-adrenoceptor	P35368	699	KLLTEPESPGTDGGASNGGC	Homo sapiens
782	379	Alpha 1c-adrenoceptor	AAA93114.1	1245	GSGMASAKTKHFSVR	Homo sapiens
783	379	Alpha 1c-adrenoceptor	AAA93114.1	1246	RIPVGSRETFYRISKTDGVC	Homo sapiens
784	379	Alpha 1c-adrenoceptor	AAA93114.1	1247	SSMPRG-SARITVSKDQSSC	Homo sapiens
785	379	Alpha 1c-adrenoceptor	AAA93114.1	1248	ESRGLKSGLTKDKSDS	Homo sapiens
786	387	Alpha 2a-adrenoceptor	P08913	1343	ERRPNGLGPERSAGPG	Homo sapiens
787	387	Alpha 2a-adrenoceptor	P08913	1344	PGEAPAGPRDIDL	Homo sapiens
788	387	Alpha 2a-adrenoceptor	P08913	1345	RGPRGKGKARASQVKPGD	Homo sapiens
789	387	Alpha 2a-adrenoceptor	P08913	1346	RGPGATGIGTPAAGPGEE	Homo sapiens
790	387	Alpha 2a-adrenoceptor	P08913	1347	RVGAAKASRWGRQNRE	Homo sapiens
791	388	Alpha 2b-adrenoceptor	P18089	1348	YKGDQGPQPRGRPQC	Homo sapiens

792	388	Alpha 2b-adrenoceptor	P18089	1349	RSNRRGPRAKGGPGQGE	Homo sapiens
793	388	Alpha 2b-adrenoceptor	P18089	1350	ASAREVNGHSKSTGEK	Homo sapiens
794	388	Alpha 2b-adrenoceptor	P18089	1351	RGVGAIGGGQWRRRAH	Homo sapiens
795	389	Alpha 2c-adrenoceptor	P18825	1352	RAPVGPDGASPTENG	Homo sapiens
796	389	Alpha 2c-adrenoceptor	P18825	1353	RTGTARPRPPTWSRTR	Homo sapiens
797	389	Alpha 2c-adrenoceptor	P18825	1354	ASRSPGPGGRLSRASS	Homo sapiens
798	389	Alpha 2c-adrenoceptor	P18825	1355	RSVEFFLSRRRRARSSVC	Homo sapiens
799	599	Bradykinin B1 Receptor	P46663	798	PMASGRQQRRRQARVTC	Homo sapiens
800	599	Bradykinin B1 Receptor	P46663	799	NYHILASLRTRREEVSR	Homo sapiens
801	599	Bradykinin B1 Receptor	P46663	800	RVRGPKDSKTTALILT	Homo sapiens
802	599	Bradykinin B1 Receptor	P46663	801	VGRLFRTKVWELYKQC	Homo sapiens
803	600	Bradykinin B2 Receptor	AAB02793.1	794	FRITMKEYSDEGHNVATC	Homo sapiens
804	600	Bradykinin B2 Receptor	AAB02793.1	795	CTMQIMQVLRNNEMQKFKE	Homo sapiens
805	600	Bradykinin B2 Receptor	AAB02793.1	796	CQDERIIDVITQIASFM	Homo sapiens
806	600	Bradykinin B2 Receptor	AAB02793.1	797	CRSEPIQMENSMTGLRTS	Homo sapiens
807	635	Beta-1 adrenoceptor	AAA51667.1	1357	RVFREAGKQVKKIDSC	Homo sapiens
808	635	Beta-1 adrenoceptor	AAA51667.1	1358	CERRFLGGPARPPSPS	Homo sapiens
809	635	Beta-1 adrenoceptor	AAA51667.1	1359	ANGRAGKRPPSRLVALRE	Homo sapiens
810	635	Beta-1 adrenoceptor	AAA51667.1	1360	CARRAARRRHATHGDRPRAS	Homo sapiens
811	635	Beta-1 adrenoceptor	AAA51667.1	1361	CLARPGPPSPGAAASD	Homo sapiens
812	635	Beta-1 adrenoceptor	AAA51667.1	1362	CNGGAAADSDSLDEP	Homo sapiens
813	640	Beta-2 adrenoceptor	NP_000015.1	2654	KRQLQKIDKSEGRFHV	Homo sapiens
814	640	Beta-2 adrenoceptor	NP_000015.1	2656	GEQSGYHVEQEKENKLLC	Homo sapiens
815	640	Beta-2 adrenoceptor	NP_000015.1	2662	APNRSHAPDHDVTQQR	Homo sapiens
816	640	Beta-2 adrenoceptor	NP_000015.1	2663	VPLVMVFVYSRVFQE	Homo sapiens
817	643	Beta-3 adrenoceptor	P13945	1390	RGELGRFPPEESPAP	Homo sapiens
818	643	Beta-3 adrenoceptor	P13945	1391	SRS LAPAPVGTCAPE	Homo sapiens
819	643	Beta-3 adrenoceptor	P13945	1392	GVPACGRPARLLPLRE	Homo sapiens
820	643	Beta-3 adrenoceptor	P13945	1393	PSGVPAAARSSPAQRPLC	Homo sapiens
821	688	Opsin, blue-sensitive	NP_001699.1	1753	EEEFYLFKNISSVGPWDGPQ	Homo sapiens
822	688	Opsin, blue-sensitive	NP_001699.1	1754	CGPDWVTVGTKYRSEST	Homo sapiens
823	688	Opsin, blue-sensitive	NP_001699.1	1755	NNRNHGLDLRLVTIPS	Homo sapiens
824	688	Opsin, blue-sensitive	NP_001699.1	1756	IMKMVCGKAMTDESST	Homo sapiens
825	692	Bombesin Receptor	AAA35604.1	20	SITNDTESSSVVSNNDNTNK	Homo sapiens
		Subtype-3				
826	692	Bombesin Receptor	AAA35604.1	21	KAVVKPLERQPSNAILKTC	Homo sapiens
		Subtype-3				

827	692	Bombesin Receptor Subtype-3	AAA35604.1	22	RDPNKNMTFESCTSPVSKK	Homo sapiens
828	692	Bombesin Receptor Subtype-3	AAA35604.1	23	RTLYKSTLNIPTTEQSHARK	Homo sapiens
829	692	Bombesin Receptor Subtype-3	AAA35604.1	24	KSFQKHFKAKQLFCKKAERPE	Homo sapiens
830	692	Bombesin Receptor Subtype-3	NP_001718.1	2286	NKGWSDNSPGIEALC	Homo sapiens
831	692	Bombesin Receptor Subtype-3	NP_001718.1	2287	QRQPHSPNQTLUSTINDTE	Homo sapiens
832	692	Bombesin Receptor Subtype-3	NP_001718.1	2288	RPEPPVADTSLTLAV	Homo sapiens
833	692	Bombesin Receptor Subtype-3	NP_001718.1	2289	SEISVTSFTGCSVKQAEDR	Homo sapiens
834	729	CXC Chemokine Receptor 5	P32302	1382	ELDRLDNYNDTSLVENHLC	Homo sapiens
835	729	CXC Chemokine Receptor 5	P32302	1383	SQGHNNSLPRCTFSQE	Homo sapiens
836	729	CXC Chemokine Receptor 5	P32302	1384	CYGVVHRLRQAQRPP	Homo sapiens
837	729	CXC Chemokine Receptor 5	P32302	1385	CQLFSPWRSSLSSENA	Homo sapiens
838	735	C-C Chemokine Receptor 1	P32246	305	TEDYDTTEFDYGDATPC	Homo sapiens
839	735	C-C Chemokine Receptor 1	P32246	1242	ASMPGLYFSKTQWEFTHTC	Homo sapiens
840	735	C-C Chemokine Receptor 1	P32246	1243	CSLHFPHESLREWKLFQA	Homo sapiens
841	735	C-C Chemokine Receptor 1	P32246	1244	TILSVFQDFLTHEC	Homo sapiens
842	737	C-C Chemokine Receptor 3	P51677	1386	CSALYPEDTVYSWRHF	Homo sapiens
843	737	C-C Chemokine Receptor 3	P51677	1387	PEFIFYETEELFEETLC	Homo sapiens
844	737	C-C Chemokine Receptor 3	P51677	1388	SSYQSILFGNDCERSK	Homo sapiens
845	737	C-C Chemokine Receptor 3	P51677	1389	GRYPFLPSEKLRTS	Homo sapiens
846	737	C-C Chemokine Receptor 3	P51677	1751	DDVGLLCEKADTRALMAQFV	Homo sapiens
847	738	C-C Chemokine Receptor 4	P51680	306	MNATEVIDTITQDETVMNSY	Mus musculus
848	738	C-C Chemokine Receptor 4	P51679	348	DESISNYLYESIPKPC	Homo sapiens
849	738	C-C Chemokine Receptor 4	P51679	351	DTPSSSYTGSTMDHDLHD	Homo sapiens
850	738	C-C Chemokine Receptor 4	P51679	353	LETLVEVLQDDCTFE	Homo sapiens
851	738	C-C Chemokine Receptor 4	P51679	491	RNHITYCKTKYSLNSTTWK	Homo sapiens
852	741	C-C Chemokine Receptor 7	P32248	748	CQDEVTDDYIGDNTTVD	Homo sapiens
853	741	C-C Chemokine Receptor 7	P32248	846	PELLYSDLQIRSSSEQAMRC	Homo sapiens
854	741	C-C Chemokine Receptor 7	P32248	847	QLRQWSSCRHIRSSMSVE	Homo sapiens
855	741	C-C Chemokine Receptor 7	P32248	848	GVKFRNDLFLKLDLGC	Homo sapiens
856	742	C-C Chemokine Receptor 8	P51685	359	PDFSSPCDAELUQTNG	Homo sapiens

857	742	C-C Chemokine Receptor 8	P51685	360	KILHQLKRCQNHNTKAIR	Homo sapiens
858	742	C-C Chemokine Receptor 8	P51685	362	SQIFNYLGRQMPRESC	Homo sapiens
859	742	C-C Chemokine Receptor 8	P51685	493	FVGEKFKHLSEIFQKSC	Homo sapiens
860	752	CXC Chemokine Receptor 3	P49682	1371	ENFSSSYDYGENESDSC	Homo sapiens
861	752	CXC Chemokine Receptor 3	P49682	1372	CYAHILAVLLVSRGQRRRLRA	Homo sapiens
862	752	CXC Chemokine Receptor 3	P49682	1373	MVLEVSDHQVLNDAEVAALL	Homo sapiens
863	752	CXC Chemokine Receptor 3	P49682	1374	CPNQRGLQRQPSSRRD	Homo sapiens
864	753	CXC Chemokine Receptor 4	P30991	1376	TEEMGSGDYDSMKEPC	Homo sapiens
865	753	CXC Chemokine Receptor 4	P30991	1377	KKLRSMITDKYRLHLSVAD	Homo sapiens
866	753	CXC Chemokine Receptor 4	P30991	1380	CIISKLSHSGHGKQRKALK	Homo sapiens
867	753	CXC Chemokine Receptor 4	P30991	1381	KILSKGKRGGHSSVSTE	Homo sapiens
868	755	Complement Component 3a Receptor 1	AAC50657.1	25	ENRSLNIVQPPGEMNDRLD	Homo sapiens
869	755	Complement Component 3a Receptor 1	AAC50657.1	26	KIPSGFPIEDHETSPLDNSD	Homo sapiens
870	755	Complement Component 3a Receptor 1	AAC50657.1	27	RKKARQSIQIGILEAAFSEE	Homo sapiens
871	755	Complement Component 3a Receptor 1	AAC50657.1	28	PQTFQRPSADSLPRGSARLT	Homo sapiens
872	758	Complement Component 5a Receptor 1	P21730	811	DLNTPVDKTSNLTLPD	Homo sapiens
873	758	Complement Component 5a Receptor 1	P21730	812	CGVDYSHDKRRERAVAIVRL	Homo sapiens
874	758	Complement Component 5a Receptor 1	P21730	813	CYFILLRTWSRRATRSTK	Homo sapiens
875	758	Complement Component 5a Receptor 1	P21730	814	QGRRLKSLPSLLRNVLTE	Homo sapiens
876	767	Calcitonin Receptor-like Receptor	Q16602	841	AELESPEDSIQLGVTR	Homo sapiens
877	767	Calcitonin Receptor-like Receptor	Q16602	843	EFVLIPWRPEGKIAEEV	Homo sapiens
878	767	Calcitonin Receptor-like Receptor	Q16602	844	RRNWNQYKIQFGNSFSNSE	Homo sapiens
879	767	Calcitonin Receptor-like Receptor	Q16602	845	RSASYTVSTISDGPYSHDC	Homo sapiens
880	832	Cannabinoid Receptor 1	AAB18200.1	29	NDIQYEDIKGDMAASKLG	Homo sapiens
881	832	Cannabinoid Receptor 1	AAB18200.1	30	KENEENIQCCGENFMDE	Homo sapiens
882	832	Cannabinoid Receptor 1	AAB18200.1	31	EDGKVQVTRPDQARMDIR	Homo sapiens

883	832	Cannabinoid Receptor 1	AAB18200.1	32	CEGTAQPLDNSMGDSD	Homo sapiens
884	832	Cannabinoid Receptor 1	AAB18200.1	274	MKSILDGLADITFR	Homo sapiens
885	832	Cannabinoid Receptor 1	AAB18200.1	297	NKLSLSENEENIQ	Homo sapiens
886	833	Cannabinoid Receptor 2	CAA52376.1	33	KDGLDSNPMKDYMLSGPQK	Homo sapiens
887	833	Cannabinoid Receptor 2	CAA52376.1	34	QDRQVPGMARMRLDVRILAKT	Homo sapiens
888	833	Cannabinoid Receptor 2	CAA52376.1	35	KEEAPRSSVTETEDGK	Homo sapiens
889	833	Cannabinoid Receptor 2	CAA52376.1	36	RSGEIRSSAHHCIAHWKCC	Homo sapiens
890	922	Leukocyte Antigen CD97	NP_001775.1	2644	GRDPPAKDVMGPRQELLC	Homo sapiens
891	922	Leukocyte Antigen CD97	NP_001775.1	2646	CSPGYEPVSGAKTFKN	Homo sapiens
892	922	Leukocyte Antigen CD97	NP_001775.1	2647	FSFSEIITPTETC	Homo sapiens
893	922	Leukocyte Antigen CD97	NP_001775.1	2648	CRPGWKPRHGIPNNQK	Homo sapiens
894	922	Leukocyte Antigen CD97	NP_001775.1	2649	DGEAGRDPPAKDVMGPR	Homo sapiens
895	922	Leukocyte Antigen CD97	NP_001775.1	2650	ANASNLHSHKQAELE	Homo sapiens
896	922	Leukocyte Antigen CD97	NP_001775.1	2651	RLSAVNSIFLSHNITKE	Homo sapiens
897	922	Leukocyte Antigen CD97	NP_001775.1	2652	KLTQKFSEINPDMKKL	Homo sapiens
898	922	Leukocyte Antigen CD97	NP_001775.1	2680	KLVDLMEAPGDVEAL	Homo sapiens
899	922	Leukocyte Antigen CD97	NP_001775.1	2681	RFFDKVQDGLGRDSKTS	Homo sapiens
900	941	EMR1 Hormone Receptor	Q14246	1180	RAEYLDIESKVINKEC	Homo sapiens
901	941	EMR1 Hormone Receptor	Q14246	2675	CVMHSEGHIRPTRKPNITK	Homo sapiens
902	941	EMR1 Hormone Receptor	Q14246	2677	CLNGQVREYKRWITGKTTP	Homo sapiens
903	941	EMR1 Hormone Receptor	Q14246	2678	CLNGQVREYKRWITGK	Homo sapiens
904	941	EMR1 Hormone Receptor	Q14246	2679	SGHLSCQGLKASCE	Homo sapiens
905	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1183	GTALANGTGELSEHQ	Homo sapiens
906	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1184	ADSUEVFNLHERYYD	Homo sapiens
907	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1185	VRAHHRGRLRPRRQKA	Homo sapiens
908	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1186	DKLRLYIEQKTNLPALNRF	Homo sapiens
909	978	Cholecystokinin A Receptor	P32238	820	AKERKPSITSSGKYEDSDGC	Homo sapiens
910	978	Cholecystokinin A Receptor	P32238	821	CYLQKTRPPRKLELRQ	Homo sapiens
911	978	Cholecystokinin A Receptor	P32238	822	SANAWRAYDTASAERR	Homo sapiens
912	978	Cholecystokinin A Receptor	P32238	823	CPNPGPPGARGEVEE	Homo sapiens
913	1103	Corticotropin releasing factor Receptor 2	Q13324	453	CEPILDDKQKRYDLHYRIAL	Homo sapiens
914	1103	Corticotropin releasing factor Receptor 2	Q13324	502	QLVDHEVHESNEVWC	Homo sapiens

915	1103	factor Receptor 2	Q13324	505	DPEGPVSYCNTILDQIGTCW	Homo sapiens
916	1103	Corticotrophin releasing factor Receptor 2	LR43	507	ALLEQYCHTITLITNLSG	Homo sapiens
917	1240	factor Receptor 2	CAA41734.1	41	SSHHEPRGSISKEC	Homo sapiens
918	1240	Dopamine Receptor D1	CAA41734.1	42	KAKTSPSDGNATSLAETID	Homo sapiens
919	1240	Dopamine Receptor D1	CAA41734.1	43	CSQPESFKMSFKRE	Homo sapiens
920	1240	Dopamine Receptor D1	CAA41734.1	44	EDLKKEEAAGIARPLEK	Homo sapiens
921	1241	Dopamine Receptor D5	P21918	1407	PWEEDFWEPDVNAENC	Homo sapiens
922	1241	Dopamine Receptor D5	P21918	1408	CAPDTSLRASIKKETK	Homo sapiens
923	1241	Dopamine Receptor D5	P21918	1409	PNAVTPGNREVDNDEE	Homo sapiens
924	1241	Dopamine Receptor D5	P21918	1410	QTSPDGDPAESVWELDC	Homo sapiens
925	1242	Dopamine Receptor D2	P14416	1403	KRSSRAFRHLRAPLKGNC	Homo sapiens
926	1242	Dopamine Receptor D2	P14416	1404	CTVIMKSNGSFPVNRIRV	Homo sapiens
927	1242	Dopamine Receptor D2	P14416	1405	KPEKNHGAKDHPKIAK	Homo sapiens
928	1242	Dopamine Receptor D2	P14416	1406	GKTRTSKTMRRKLSQQKE	Homo sapiens
929	1243	Dopamine Receptor D3	P35462	1398	KQRRRKRLTRQNSQC	Homo sapiens
930	1243	Dopamine Receptor D3	P35462	1399	CNSVRPGFPQQTLSPDP	Homo sapiens
931	1243	Dopamine Receptor D3	P35462	1400	CQDTALGGPGFQERGGEE	Homo sapiens
932	1243	Dopamine Receptor D3	P35462	1401	KREEKTRNSLSPTIAP	Homo sapiens
933	1243	Dopamine Receptor D3	P35462	1402	STSLKGLQPRGVPLRE	Homo sapiens
934	1244	Dopamine Receptor D4	P21917	1394	VAVAVPLRYNRQGGSR	Homo sapiens
935	1244	Dopamine Receptor D4	P21917	1395	EVARRAKLHGRAPRRP	Homo sapiens
936	1244	Dopamine Receptor D4	P21917	1396	PPSPTPPAPRLPQDPC	Homo sapiens
937	1244	Dopamine Receptor D4	P21917	1397	PPQTPPQTRRRRAKITGRE	Homo sapiens
938	1267	Opioid Receptor, delta 1 (OPRD1)	AAA18789.1	222	DAYPSAFPSAGANASGP	Homo sapiens
939	1267	Opioid Receptor, delta 1 (OPRD1)	AAA18789.1	224	LVDIDRRDPLVVAALHLC	Homo sapiens
940	1267	Opioid Receptor, delta 1 (OPRD1)	AAA18789.1	225	KRCFRQLCRKPCGRPD	Homo sapiens
941	1267	Opioid Receptor, delta 1 (OPRD1)	AAA18789.1	226	SRPREATARERTAC	Homo sapiens
942	1424	Duffy Antigen	AAC50055.1	1411	TENSSQLDFEDVWNSS	Homo sapiens
943	1424	Duffy Antigen	AAC50055.1	1412	NDSFPDGDYDANLEAAAPC	Homo sapiens
944	1424	Duffy Antigen	AAC50055.1	1413	CHASLGHRLGAGQVPG	Homo sapiens

945	1424	Duffy Antigen	AAC50055.1	1415	FGAKGLKKALGMGPGP	Homo sapiens
946	1451	EBV-Induced Gene 2	AAA35924.1	45	KQEAERITCMEYPNFET	Homo sapiens
947	1451	EBV-Induced Gene 2	AAA35924.1	46	KLFRITAKQNPLTEKSGVNKK	Homo sapiens
948	1451	EBV-Induced Gene 2	AAA35924.1	47	KSAPEENSREMITETQM	Homo sapiens
949	1451	EBV-Induced Gene 2	AAA35924.1	48	CKGYKRKVMRMMLKRQ	Homo sapiens
950	1486	Endothelin B Receptor	BAA14398.1	54	GEERGFPDRAITPLLQTAE	Homo sapiens
951	1486	Endothelin B Receptor	BAA14398.1	55	RLAPAEVPGKDRTAGSP	Homo sapiens
952	1486	Endothelin B Receptor	BAA14398.1	56	PTISPPPCGGPIEIK	Homo sapiens
953	1486	Endothelin B Receptor	BAA14398.1	57	EKQSLKQSLKFKAND	Homo sapiens
954	1488	Endothelin A Receptor	AAB25530.1	49	RYSTNLSNHVDDFTFRGTE	Homo sapiens
955	1488	Endothelin A Receptor	AAB25530.1	50	NRRNGSLRIALSEHLK	Homo sapiens
956	1488	Endothelin A Receptor	AAB25530.1	51	EYRGEQHKTCMLNATSK	Homo sapiens
957	1488	Endothelin A Receptor	AAB25530.1	53	KNHDQNNHNIDRSSHKD	Homo sapiens
958	1598	Calcium-Sensing Receptor (CASR)	P41180	1425	RPGIEKFREAEERDIC	Homo sapiens
959	1598	Calcium-Sensing Receptor (CASR)	P41180	1426	CHLQEGAKGPLPVDTLR	Homo sapiens
960	1598	Calcium-Sensing Receptor (CASR)	P41180	1427	GHEESGDRFSNSTAFRPLC	Homo sapiens
961	1598	Calcium-Sensing Receptor (CASR)	P41180	1428	KGIIEGPTCCFECVECPDG	Homo sapiens
962	1598	Calcium-Sensing Receptor (CASR)	P41180	1429	CSTAAHAFKVAAARATLRSN	Homo sapiens
963	1598	Calcium-Sensing Receptor (CASR)	P41180	1430	PQKNAMAHNRNSTHQNSLE	Homo sapiens
964	1598	Calcium-Sensing Receptor (CASR)	P41180	1431	RPEVEDPEELSPALVSSSQ	Homo sapiens
965	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1878	ASWGGTPEERLKVAITMLIA	Homo sapiens
966	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1879	SEDSAPTNDTAANSAS	Homo sapiens
967	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1880	SYESAGYTVLRILPLVWL	Homo sapiens
968	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1881	PVFLFTVTIPNGD	Homo sapiens
969	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2612	EERLKVAITMLTARGIIRFV	Homo sapiens
970	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2613	ERALSEDSAPTNDTAANSAS	Homo sapiens

971	1681	Like Receptor	Follicle Stimulating Hormone Receptor	AA52477.1	58	QESKVTEIPSDLP RNAIELR	Homo sapiens
972	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	59	DVLEVIEADVFSNLPK	Homo sapiens
973	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AA52477.1	60	RNGHCSSAPRVTSYSTY	Homo sapiens
974	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AA52477.1	61	RGQRSSLAEDNESSYSRGFD	Homo sapiens
975	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2231	CHHRICHCSNRVFLCQE	Homo sapiens
976	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2232	LRVIQKGAFSGFGDLEK	Homo sapiens
977	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2233	LYVMSLLVLNVLAFFVIC	Homo sapiens
978	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2234	CNKSILRQEVDMYMTQARGQR	Homo sapiens
979	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2236	SDNNLEELPNDVFHGA	Homo sapiens
980	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2238	KLVALMEASLTYPSC	Homo sapiens
981	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2241	SFESVILWLNKNGIQEIHNC	Homo sapiens
982	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2248	IHSLQKVLLDIQDNIHIT	Homo sapiens
983	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2250	KANNLLYITPEAFQNLIP	Homo sapiens
984	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2251	CYEMQAQIYRTETSTSTVH	Homo sapiens
985	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1437	TNTPSSRRKKMVRRWVC	Homo sapiens
986	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1439	ARAIASDDQEKHSSRK	Homo sapiens
987	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1440	KYSAKTGLTKLIDASRVSET	Homo sapiens
988	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1893	PDTYVLKTVTSASNNETYC	Homo sapiens
989	1762	Galanin Receptor GalR1	Galanin Receptor GalR1	AAA50767.1	192	GNSLVITVLARSKPGKPR	Homo sapiens
990	1762	Galanin Receptor GalR1	Galanin Receptor GalR1	AAA50767.1	193	PRASNQTFCWEQWDPDRHKK	Homo sapiens

991	1762	Galanin Receptor GalR1	AAA50767.1	194	KKLKNMSKKSEASKKKTAQ	Homo sapiens
992	1762	Galanin Receptor GalR1	AAA50767.1	195	GNSLVTIVLARSKP	Homo sapiens
993	1762	Galanin Receptor GalR1	AAA50767.1	196	RKDSHLSDTKENKSRID	Homo sapiens
994	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1250	QTAGELYQRWERYRREC	Homo sapiens
995	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1251	CENPEKNEAFDQRULER	Homo sapiens
996	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1253	CRLRSLGEEQRQLPERAFR	Homo sapiens
997	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1276	PTSRGLSSGTLPGPGNEA	Homo sapiens
998	1813	Gastrin-Releasing Peptide Receptor	P30550	829	CNISSHSADLPVNDWWSHPG	Homo sapiens
999	1813	Gastrin-Releasing Peptide Receptor	P30550	830	SDLHPFHEESTNQTFISC	Homo sapiens
1000	1813	Gastrin-Releasing Peptide Receptor	P30550	831	YNLPVEGNIHVKKQIES	Homo sapiens
1001	1813	Gastrin-Releasing Peptide Receptor	P30550	832	CQPGLIIRSHSTGRSTT	Homo sapiens
1002	1814	Cholecystokinin B Receptor	Q16144	1281	CEPPRIRGAGTRELEAIR	Homo sapiens
1003	1814	Cholecystokinin B Receptor	Q16144	1282	RVRNQGGPLGAVHQNGRC	Homo sapiens
1004	1814	Cholecystokinin B Receptor	Q16144	1283	LRFDGSDSDSQSRVR	Homo sapiens
1005	1814	Cholecystokinin B Receptor	Q16144	1284	CRPETGAVGKSDSGCY	Homo sapiens
1006	1834	Glucagon Receptor	P47871	837	DGLLRTRYSQKIGDDL	Homo sapiens
1007	1834	Glucagon Receptor	P47871	838	CGPDGQWVRGPRGQPPWRDAS	Homo sapiens
1008	1834	Glucagon Receptor	P47871	839	CQMDGEEIEVQKEVAKMYSS	Homo sapiens
1009	1834	Glucagon Receptor	P47871	840	TSNHRASSSPGHGPPSKE	Homo sapiens
1010	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	206	KLQKWTQKKKEGKKLSRMK	Homo sapiens
1011	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	207	DRSLAIRPLALKNSKVGG	Homo sapiens
1012	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	208	RMIHLADSSGQTKVFSQC	Homo sapiens
1013	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	209	DPHELQNLNGSKNNIPRARLK	Homo sapiens
1014	1945	Opsin, green-sensitive	NP_000504.1	1746	QRLAGRHPQDSYEDSTQSS	Homo sapiens
1015	1945	Opsin, green-sensitive	NP_000504.1	1747	CKPFGNVRFDKLAIVG	Homo sapiens
1016	1945	Opsin, green-sensitive	NP_000504.1	1748	KTSCGPDVFSGSSYPGVQS	Homo sapiens

1017	1945	Opsin, green-sensitive	NP_000504.1	1750	CILQLFGKKVDDGSELSS	Homo sapiens
1018	1945	Opsin, green-sensitive	NP_000504.1	1767	STRGPFEGPNYHIAPR	Homo sapiens
1019	1945	Opsin, green-sensitive	NP_000504.1	1768	TNGLVLAATMKFKLLR	Homo sapiens
1020	1945	Opsin, green-sensitive	NP_000504.1	1769	ELSSASKTEVSSVSSVP	Homo sapiens
1021	1951	Growth Hormone	Q92847	581	ADLDWDASPGNDSLGD	Homo sapiens
1022	1951	Secretagogue Receptor	Q92847	582	GVEHENGTDPWDTNEC	Homo sapiens
1023	1951	Secretagogue Receptor	Q92847	583	KLWRRRRRGDAVVGASL	Homo sapiens
1024	1951	Secretagogue Receptor	Q92847	584	SQRKLSTLKDESSRAW	Homo sapiens
1025	1954	Secretagogue Receptor	Q02643	833	REDESACLQAAEEMPNTLG	Homo sapiens
1026	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	834	CPDFFSHFSSESGAVKRD	Homo sapiens
1027	1954	Hormone Receptor	Q02643	835	VRKLEPAQGSLSHTQSQ	Homo sapiens
1028	1954	Growth Hormone-Releasing Hormone Receptor	Q02643	836	RTEISRKWHGHDPPELL	Homo sapiens
1029	2120	Histamine H1 Receptor	P35367	1167	GWNHFMQQTSVRREDKC	Homo sapiens
1030	2120	Histamine H1 Receptor	P35367	1168	CQHRELINRSLPSFSEIKLR	Homo sapiens
1031	2120	Histamine H1 Receptor	P35367	1169	AGGGSVLKSPSQTPKE	Homo sapiens
1032	2120	Histamine H1 Receptor	P35367	1170	KSPVVFSEQEDDREVDKLYC	Homo sapiens
1033	2120	Histamine H1 Receptor	P35367	1171	TAPGKGKLRSGSNTGLD	Homo sapiens
1034	2120	Histamine H1 Receptor	P35367	1172	KRLRSHSRQVYVSGLHMNRE	Homo sapiens
1035	2121	Histamine H2 Receptor	P25021	1173	NSRNETSKGNHTSKC	Homo sapiens
1036	2121	Histamine H2 Receptor	P25021	1174	CITYRIFKVARDDQAKR	Homo sapiens
1037	2121	Histamine H2 Receptor	P25021	1175	RDQAKRINHSSWKAA	Homo sapiens
1038	2121	Histamine H2 Receptor	P25021	1176	TAFVYRGLRGDDAINE	Homo sapiens
1039	2121	Histamine H2 Receptor	P25021	1177	HKTSLRNASQLSRTQSRE	Homo sapiens
1040	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	227	DSNGSAGSEDAQLEPA	Homo sapiens
1041	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	228	KVREDVDVIECSLQFPDDDD	Homo sapiens
1042	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	229	RNTVQDDPAYLRDIDGMNK	Homo sapiens
1043	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	230	CFPLKMRMERQSTSRVRN	Homo sapiens

1044	2964	(OPRK1) Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1432	CNTGIRKFPDVTKVFSSEN	Homo sapiens
1045	2964	Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1433	KMHNGAFRGATGPKILD	Homo sapiens
1046	2964	Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1434	CESTVRKVSNIKLYSS	Homo sapiens
1047	2964	Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1435	FAVRNPELMATNKDTK	Homo sapiens
1048	2964	Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1436	CKRRAELYRRKDFSAYTSN	Homo sapiens
1049	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	210	ERHITVFRMQLHTRMSNRR	Homo sapiens
1050	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	211	RQRTMRMSRHSSGPRRNRD	Homo sapiens
1051	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	212	KHLATEWNTVSKLVM	Homo sapiens
1052	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	213	ENPTGPTSSDRSASSLN	Homo sapiens
1053	3038	G Protein-Coupled Receptor MRG	AAB21255.1	184	ESQISLSCSLCHSGDQEAQ	Homo sapiens
1054	3038	G Protein-Coupled Receptor MRG	AAB21255.1	185	QQQKATRVYAVWQISAPM	Homo sapiens
1055	3038	G Protein-Coupled Receptor MRG	AAB21255.1	186	DKPEVGRNKKAAAGIDPME	Homo sapiens
1056	3038	G Protein-Coupled Receptor MRG	AAB21255.1	187	EQPHSTQHVENLLPREHRVD	Homo sapiens
1057	3057	Melanocortin 3 Receptor (MC3R)	P41968	451	RLHVKRIAALPPADGVAPQ	Homo sapiens
1058	3057	Melanocortin 3 Receptor (MC3R)	P41968	452	DPLIYAFRSLELRNTFRE	Homo sapiens
1059	3057	Melanocortin 3 Receptor (MC3R)	P41968	562	QAPFFSNQSSSAFCEQVFI	Homo sapiens
1060	3057	Melanocortin 3 Receptor (MC3R)	P41968	563	IVHSDYLTFFDQFIQHMDNI	Homo sapiens

1061	3058	(MC3R)	Melanocortin 4 Receptor	AAB33341.1	1032	HSNASESLGKGYSDGGC	Homo sapiens
1062	3058	(MC4R)	Melanocortin 4 Receptor	AAB33341.1	1033	KRIAVLPGTGAIKQGA	Homo sapiens
1063	3058	(MC4R)	Melanocortin 4 Receptor	AAB33341.1	1035	NSTDIDAQSFTVNIDN	Homo sapiens
1064	3058	(MC4R)	Melanocortin 4 Receptor	AAB33341.1	1469	NSTHRGMHTSLHLWNRSSYR	Homo sapiens
1065	3059	(MC4R)	Melanocortin 5 Receptor	P33032	1022	ATEGNLSGPNVKNKSSPC	Homo sapiens
1066	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1024	NKHLVIADAFVRHIDN	Homo sapiens
1067	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1025	MNSSFHLHFLDLNLNAT	Homo sapiens
1068	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1026	RYHHIMTARRSGAIAG	Homo sapiens
1069	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1036	QGSQRRLGSLNSTPT	Homo sapiens
1070	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1038	EAGALVARAAVLQQLD	Homo sapiens
1071	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1039	ALRYHSIVTLPRARQA	Homo sapiens
1072	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1040	CQHAQGGIARLHKRQRP	Homo sapiens
1073	3079		Melatonin Receptor type 1a	AAB17720.1	214	HSLKYDKLYSSKNSLC	Homo sapiens
1074	3079		Melatonin Receptor type 1a	AAB17720.1	215	CTARVFFVDSSNDVADR	Homo sapiens
1075	3079		Melatonin Receptor type 1a	AAB17720.1	216	QVRQRVKPDRPKLKP	Homo sapiens
1076	3079		Melatonin Receptor type 1a	AAB17720.1	217	DSSNDVADRVKWKPSPLMTN	Homo sapiens
1077	3080		Melatonin Receptor type 1b	P49286	930	AVRPGWSGAGSARPSR	Homo sapiens
1078	3080		Melatonin Receptor type 1b	P49286	931	LVAIFYDGWALGEEHC	Homo sapiens
1079	3080		Melatonin Receptor type 1b	P49286	932	LVLQARRKAKPESRLC	Homo sapiens
1080	3080		Melatonin Receptor type 1b	P49286	933	CIQDASKGSHAEGLQSPA	Homo sapiens
1081	3080		Melatonin Receptor type 1b	P49286	934	GEMAPQIPEGLFVTSY	Homo sapiens
1082	3081		Melatonin-Related Receptor	Q13585	751	LAARDPAGQNPNDNQLAE	Homo sapiens
1083	3081		Melatonin-Related Receptor	Q13585	752	ARARAHARDQAREQDRAHAC	Homo sapiens
1084	3081		Melatonin-Related Receptor	Q13585	753	DRASGHPKPHSRSSAY	Homo sapiens
1085	3081		Melatonin-Related Receptor	Q13585	754	HPKPAADNPELSASHC	Homo sapiens

1086	3081	Melatonin-Related Receptor	Q13585	755	DDSDLPESASSPAAAGPT	Homo sapiens
1087	3093	Metabotropic Glutamate Receptor 1	Q13255	879	DDYKIQMNKSGVVRVC	Homo sapiens
1088	3093	Metabotropic Glutamate Receptor 1	Q13255	880	CRSNTFLNIFRRKKAG	Homo sapiens
1089	3093	Metabotropic Glutamate Receptor 1	Q13255	881	DTSTKITLYNVEEEDA	Homo sapiens
1090	3093	Metabotropic Glutamate Receptor 1	Q13255	882	ERFKLLQEVVVEHERE	Homo sapiens
1091	3094	Metabotropic Glutamate Receptor 2	Q14416	891	DFVRASLSRGADGSRHIC	Homo sapiens
1092	3094	Metabotropic Glutamate Receptor 2	Q14416	892	CVATSEKVGRAMSRAAFEG	Homo sapiens
1093	3094	Metabotropic Glutamate Receptor 2	Q14416	893	CAAHSLRAVPFEQESK	Homo sapiens
1094	3094	Metabotropic Glutamate Receptor 2	Q14416	894	CDAMRPVNGRRLYKDF	Homo sapiens
1095	3094	Metabotropic Glutamate Receptor 2	Q14416	895	DAPFRPADTHNEVRFRDR	Homo sapiens
1096	3094	Metabotropic Glutamate Receptor 2	Q14416	896	GKETAPERREVVTLCR	Homo sapiens
1097	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	897	GGLFPINEKGTGTEEC	Homo sapiens
1098	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	898	EFVRASLTKVDEAEVMC	Homo sapiens
1099	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	899	RSNIRKSYDSVIRELL	Homo sapiens
1100	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	900	CDKHLAIDSSNVEQES	Homo sapiens
1101	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	902	GTRRYTLAEKRETVILKC	Homo sapiens
1102	3096	Metabotropic Glutamate Receptor 4	Q14833	909	PSSLGKPKGHPHMNSIRID	Homo sapiens
1103	3096	Metabotropic Glutamate Receptor 4	Q14833	910	CGSGGPPITKPERVVG	Homo sapiens
1104	3096	Metabotropic Glutamate Receptor 4	Q14833	911	CKLSRHALKKGSHVKK	Homo sapiens
1105	3096	Metabotropic Glutamate Receptor 4	Q14833	913	CPRMDPVDGTQLLKYI	Homo sapiens

1106	3096	Metabotropic Glutamate Receptor 4	Q14833	914	RIERMHWPGSGGQLPRSC	Homo sapiens
1107	3097	Metabotropic Glutamate Receptor 5	P41594	883	KDYFDYINVGWDNGEL	Homo sapiens
1108	3097	Metabotropic Glutamate Receptor 5	P41594	884	KMDDDEVWSKSNIRSV	Homo sapiens
1109	3097	Metabotropic Glutamate Receptor 5	P41594	885	GETLRYKDRRLAQHKSEIC	Homo sapiens
1110	3097	Metabotropic Glutamate Receptor 5	P41594	886	NPNQTAIVIKPFPKSTE	Homo sapiens
1111	3097	Metabotropic Glutamate Receptor 5	P41594	887	KALYDVAAEAEEHFPAPA	Homo sapiens
1112	3097	Metabotropic Glutamate Receptor 5	P41594	888	RSPSISTLSHRAGSASRTD	Homo sapiens
1113	3097	Metabotropic Glutamate Receptor 5	P41594	889	RESPAAGPEAAAAKPD	Homo sapiens
1114	3098	Metabotropic Glutamate Receptor 6	O15303	903	QALIRGRGDGDEVGVRC	Homo sapiens
1115	3098	Metabotropic Glutamate Receptor 6	O15303	904	KLTSSTQSDDDSTRKC	Homo sapiens
1116	3098	Metabotropic Glutamate Receptor 6	O15303	905	DVEALQWSGDPHEVPSSLC	Homo sapiens
1117	3098	Metabotropic Glutamate Receptor 6	O15303	906	RFQVDEFTCEACPGDM	Homo sapiens
1118	3098	Metabotropic Glutamate Receptor 6	O15303	907	GARPPHSVIDYEEQRT	Homo sapiens
1119	3099	Metabotropic Glutamate Receptor 7	Q14831	917	CIAGSVRIPQERKDRITDFD	Homo sapiens
1120	3099	Metabotropic Glutamate Receptor 7	Q14831	918	NDEDIKQILAAAKRAD	Homo sapiens
1121	3099	Metabotropic Glutamate Receptor 7	Q14831	921	NIEDMQWKGKGVREIPASVC	Homo sapiens
1122	3099	Metabotropic Glutamate Receptor 7	Q14831	2693	IKQLDTPNSRAVVI	Homo sapiens
1123	3099	Metabotropic Glutamate Receptor 7	Q14831	2694	DPPNIIDYDEHKTM	Homo sapiens
1124	3100	Metabotropic Glutamate Receptor 8	O00222	922	CANGDPPIFTKPKIS	Homo sapiens
1125	3100	Metabotropic Glutamate	O00222	923	CPRMSTIDGKELGYIRA	Homo sapiens

1126	3100	Receptor 8	O00222	924	KVEDMQWAHREHHPASVC	Homo sapiens
1127	3100	Metabotropic Glutamate Receptor 8	O00222	925	CESLETNISTTKTYSYS	Homo sapiens
1128	3100	Metabotropic Glutamate Receptor 8	O00222	1894	KFYWILTMQRIHQEYAH	Homo sapiens
1129	3212	Opioid mu-type Receptor	AAA20580.1	231	DGNLSDPCGPNRTNLGGRDS	Homo sapiens
1130	3212	Opioid mu-type Receptor	AAA20580.1	232	DRTNHQLENLEAETAPLP	Homo sapiens
1131	3212	Opioid mu-type Receptor	AAA20580.1	233	IKALVTIPETTFQTVS	Homo sapiens
1132	3212	Opioid mu-type Receptor	AAA20580.1	234	RIRQNTDRDHPSTANTVDR	Homo sapiens
1133	3223	Muscarinic acetylcholine Receptor M1	AAA35686.1	1325	SERSQPGAEGSPETPPGRC	Homo sapiens
1134	3223	Muscarinic acetylcholine Receptor M1	AAA35686.1	1326	CRAPRLQAYSWKEEE	Homo sapiens
1135	3223	Muscarinic acetylcholine Receptor M1	AAA35686.1	1327	SSEGEPEPGSEVVIKMP	Homo sapiens
1136	3223	Muscarinic acetylcholine Receptor M1	AAA35686.1	1328	KQPPRSSPNTVKRPTKKGRD	Homo sapiens
1137	3223	Muscarinic acetylcholine Receptor M1	AAA35686.1	1329	CRWDKRRWRKIPKRPGRS	Homo sapiens
1138	3224	Muscarinic acetylcholine Receptor M2	AAA51570.1	1330	EHNKIQNGKAPRDPVTENC	Homo sapiens
1139	3224	Muscarinic acetylcholine Receptor M2	AAA51570.1	1331	DSTSVSAVASNMIRDDE	Homo sapiens
1140	3224	Muscarinic acetylcholine Receptor M2	AAA51570.1	1332	ENTVSTSLGHSKDENSKQTC	Homo sapiens
1141	3224	Muscarinic acetylcholine Receptor M2	AAA51570.1	1333	DEKQNIIVARKIVKMTK	Homo sapiens
1142	3224	Muscarinic acetylcholine Receptor M2	AAA51570.1	1831	RIKKDKKEPVANQDPVPSL	Homo sapiens
1143	3226	Muscarinic acetylcholine Receptor M4	AAA51571.1	218	SRSRVHKKHRPEGPKEKKAKT	Homo sapiens
1144	3226	Muscarinic acetylcholine Receptor M4	AAA51571.1	219	KKPRPGGPRGGLRNGKLEEA	Homo sapiens
1145	3226	Muscarinic acetylcholine Receptor M4	AAA51571.1	220	DKDTSNESSSGSATQNTKER	Homo sapiens
1146	3226	Muscarinic acetylcholine Receptor M4	AAA51571.1	221	RPAANVARKFASIRNQVRK	Homo sapiens

1147	3227	Muscarinic Acetylcholine Receptor M5	P08912	1334	KAEKRKPAHRAFRSC	Homo sapiens
1148	3227	Muscarinic Acetylcholine Receptor M5	P08912	1335	CSSYPSEDEDKPAID	Homo sapiens
1149	3227	Muscarinic Acetylcholine Receptor M5	P08912	1336	KESPGEEFSAEETETIV	Homo sapiens
1150	3227	Muscarinic Acetylcholine Receptor M5	P08912	1337	KFRLVVKADGNQETNNGC	Homo sapiens
1151	3227	Muscarinic Acetylcholine Receptor M5	P08912	1338	KEPSTKGLNPNPSHQM	Homo sapiens
1152	3378	Tachykinin Receptor 3	NP_001050.1	1757	PAAETWIDGGGGVGAD	Homo sapiens
1153	3378	Tachykinin Receptor 3	NP_001050.1	1759	PSQPWANLTNQFVQPSWR	Homo sapiens
1154	3378	Tachykinin Receptor 3	NP_001050.1	1760	SRKKRATPRDPSFNGC	Homo sapiens
1155	3378	Tachykinin Receptor 3	NP_001050.1	2265	ADAVNLTAALAAGAA	Homo sapiens
1156	3378	Tachykinin Receptor 3	NP_001050.1	2290	SPSALGLPVASAPSPQP	Homo sapiens
1157	3380	Neuromedin B Receptor	P28336	824	ERDFLPASDGTTELVR	Homo sapiens
1158	3380	Neuromedin B Receptor	P28336	825	KTUKSAHNLPGEYNE	Homo sapiens
1159	3380	Neuromedin B Receptor	P28336	826	SEVARISSLDNSSFAC	Homo sapiens
1160	3380	Neuromedin B Receptor	P28336	828	CGRKSYQERGTSYLLSSA	Homo sapiens
1161	3404	Neuropeptide Y Receptor Type 2	P49146	1057	RGELVPDPEPIDST	Homo sapiens
1162	3404	Neuropeptide Y Receptor Type 2	P49146	1058	CIVYHLESKISKRSF	Homo sapiens
1163	3404	Neuropeptide Y Receptor Type 2	P49146	1059	REYSLEIIPDFEIVAC	Homo sapiens
1164	3404	Neuropeptide Y Receptor Type 2	P49146	1060	NDHYHQRRQKTKMLVC	Homo sapiens
1165	3404	Neuropeptide Y Receptor Type 2	P49146	1061	CEQRDLAIHSEVSVTFKAKK	Homo sapiens
1166	3404	Neuropeptide Y Receptor Type 2	P49146	2297	MGPIGAEADENQTVEMKVE	Homo sapiens
1167	3404	Neuropeptide Y Receptor Type 2	P49146	2298	SEVSVTFKAKKNLEVRKNSG	Homo sapiens
1168	3405	Neuropeptide Y Receptor Type 4	P50391	1068	CVTVRQKEKANVTNLL	Homo sapiens
1169	3405	Neuropeptide Y Receptor Type 4	P50391	1069	KNHSALEFLADKVVC	Homo sapiens
1170	3405	Neuropeptide Y Receptor Type 4	P50391	1070	CYARIYRRLQRQGRVFHKG	Homo sapiens

1171	3405	Type 4 Neuropeptide Y Receptor	P50391	1071	CQQSAPLESEHLPLST	Homo sapiens
1172	3405	Type 4 Neuropeptide Y Receptor	P50391	2275	SEHCQDSVDVMVFVTS	Homo sapiens
1173	3406	Type 4 Neuropeptide Y Receptor	Q15761	1072	MIKRNQKTTVNFIGN	Homo sapiens
1174	3406	Type 5 Neuropeptide Y Receptor	Q15761	1073	CGLSNKENRLEENEMI	Homo sapiens
1175	3406	Type 5 Neuropeptide Y Receptor	Q15761	1074	NLTLPSSKSGPQVKL	Homo sapiens
1176	3406	Type 5 Neuropeptide Y Receptor	Q15761	1075	SFIKHRRRYSKKTAC	Homo sapiens
1177	3406	Type 5 Neuropeptide Y Receptor	Q15761	1076	PERPSQENHSRILPEN	Homo sapiens
1178	3406	Type 5 Neuropeptide Y Receptor	Q15761	1077	CFEIKPEENSVDVHELRV	Homo sapiens
1179	3408	Type 5 Neurotensin Receptor Type 1	P30989	935	RVLAAPSSSELDVNTDIYS	Homo sapiens
1180	3408	Type 5 Neurotensin Receptor Type 1	P30989	936	CHPFKAKTLMRSRTKK	Homo sapiens
1181	3408	Type 5 Neurotensin Receptor Type 1	P30989	937	GEQNRSDGQHGAGLVC	Homo sapiens
1182	3408	Type 5 Neurotensin Receptor Type 1	P30989	938	RQAAEQGGQVCTVGGEHS	Homo sapiens
1183	3408	Type 5 Neurotensin Receptor Type 1	P30989	939	CPVWRRRRRRKRPAFSRKADS	Homo sapiens
1184	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	940	CHPIRALDVRTSSKAGQA	Homo sapiens
1185	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	941	PVAIMGSAQVEDEEIEC	Homo sapiens
1186	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	942	GVQPSSETAVAILRFC	Homo sapiens
1187	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	943	CASALRRDVQVSDRVRSAIK	Homo sapiens
1188	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2123	TPEPRPRTQPMASPRLGTFC	Homo sapiens
1189	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2124	TAVASLLKGRQGIYTE	Homo sapiens

1190	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2125	EMQTDINGGSLKPVRTAAK	Homo sapiens
1191	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2126	CSLGFQSPRKEIQWES	Homo sapiens
1192	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2127	SEGSDASTIEHTASESC	Homo sapiens
1193	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2128	NPASGKVSQVGGQTSD	Homo sapiens
1194	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1486	CKKLHIPLKAGNDLDIRIK	Homo sapiens
1195	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1500	KIVKPLWTSFIQSVSVSKLL	Homo sapiens
1196	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1502	TAITKKIFKSHLKSSRNSTS	Homo sapiens
1197	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1503	VKKSSRNIFSIVFVFFVC	Homo sapiens
1198	3582	Oxytocin Receptor	CAA46097.1	244	AEGNRTAGPPRRNEALARVE	Homo sapiens
1199	3582	Oxytocin Receptor	CAA46097.1	245	RLAVLATWLGCLVASAP	Homo sapiens
1200	3582	Oxytocin Receptor	CAA46097.1	246	PEGAAAGDGGRRVALAR	Homo sapiens
1201	3582	Oxytocin Receptor	CAA46097.1	247	YLGRRLGSETSASKSNSS	Homo sapiens
1202	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	854	MQRIGDVLGSSSEDFRR	Homo sapiens
1203	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	855	ARGGRVTCCHDTSAPEL	Homo sapiens
1204	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	856	KPAYGTSGLPRAKRR	Homo sapiens
1205	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	857	TGPSPATPARRRLGLRRSD	Homo sapiens
1206	3595	Purinergic Receptor P2Y1	CAA07339.1	386	RYSGWVYPLKSLGRLKKKN	Homo sapiens
1207	3595	Purinergic Receptor P2Y1	CAA07339.1	387	SGTGVKRNKKTTCYD	Homo sapiens
1208	3595	Purinergic Receptor P2Y1	CAA07339.1	388	RALIYKDLDNSPLRRKS	Homo sapiens
1209	3595	Purinergic Receptor P2Y1	CAA07339.1	389	DTFRRRLSRATRKASRRSE	Homo sapiens
1210	3596	Purinergic Receptor P2Y5	P43657	850	FVQSTHSQGNNAEAC	Homo sapiens
1211	3596	Purinergic Receptor P2Y5	P43657	851	MVLKTLTKPVTLSRSKI	Homo sapiens
1212	3596	Purinergic Receptor P2Y5	P43657	852	TIQNSIKMKKNWSVRSD	Homo sapiens
1213	3596	Purinergic Receptor P2Y5	P43657	853	SEVHGAENFIQHNLQTLK	Homo sapiens
1214	3597	Purinergic Receptor P2Y6	Q15077	874	CTSRRLTRTAVYTLN	Homo sapiens
1215	3597	Purinergic Receptor P2Y6	Q15077	875	AQERRGKAARMMAVVV	Homo sapiens

1216	3597	Purinergic Receptor P2Y6	Q15077	876	TKTAYLAVRSTPGVPC	Homo sapiens
1217	3597	Purinergic Receptor P2Y6	Q15077	877	KKRRRRPHELLQKLIK	Homo sapiens
1218	3597	Purinergic Receptor P2Y6	Q15077	2726	CHPLAPWHKRGRRRAAW	Homo sapiens
1219	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	870	CFRMKMRSETAIFITN	Homo sapiens
1220	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	871	RTLKRPATLSQIGTNKK	Homo sapiens
1221	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	872	ESFQKSFYINAHIRMES	Homo sapiens
1222	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	873	KTETPLTKPSLPAIQEE	Homo sapiens
1223	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	1895	SSLRPRLGNATANNTCIVD	Homo sapiens
1224	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	248	KAKVQCELNITAIQLQEGE	Homo sapiens
1225	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	249	ESLIMQDDPQNSIEATSVDK	Homo sapiens
1226	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	250	NSEQDCLPHSFHEETKE	Homo sapiens
1227	3638	Parathyroid Hormone Receptor 2 (PTH2)	AAC50157.1	251	EETKEDSGRQGDDILMEKPS	Homo sapiens
1228	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	761	CEKRLKEVLQRPASIMESDK	Homo sapiens
1229	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	762	ESEEDKEAPTGSRYVRGPC	Homo sapiens
1230	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	763	LYSGATLDEAERLTFEELR	Homo sapiens
1231	3640	Parathyroid Hormone Receptor 1 (PTH1)	Q03431	765	KDDGFLNGSCSGLDEEASG	Homo sapiens
1232	3732	PACAP Receptor Type 1	P41586	944	CLEKIQRANELMGFNDSS	Homo sapiens
1233	3732	PACAP Receptor Type 1	P41586	945	CPFLFRIFNPDQVWETET	Homo sapiens
1234	3732	PACAP Receptor Type 1	P41586	946	DSNSLDLSDMGVVSRLNC	Homo sapiens
1235	3732	PACAP Receptor Type 1	P41586	948	IKRKWRSWKVNRVFAVD	Homo sapiens
1236	3732	PACAP Receptor Type 1	P41586	2292	ESDFGDSNSLDLSDMGVWSR	Homo sapiens
1237	3844	Apelin Receptor	AAA18954.1	62	RTTGDLNNTKVQC	Homo sapiens
1238	3844	Apelin Receptor	AAA18954.1	63	RSSREKRRSADIFIAS	Homo sapiens
1239	3844	Apelin Receptor	AAA18954.1	64	QTIAGHFRKERIEGLRKRRR	Homo sapiens
1240	3844	Apelin Receptor	AAA18954.1	65	GPNMKGKGGEQMIHEKSPYSQ	Homo sapiens

1241	3845	Chemokine-Like Receptor 1 (CMKLR1)	LR39	447	RMEDEDYNTSISYGDEYPD	Homo sapiens
1242	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	448	DSIVVLEDLSPLEARVTR	Homo sapiens
1243	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	449	LTIVCKLHRNRLAKTKKPFK	Homo sapiens
1244	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	450	RSFTKMSSMINERTSMNERE	Homo sapiens
1245	3846	Spingolipid Receptor Edg1	AAA52336.1	1010	TRSRRLTRKNISKASRSSE	Homo sapiens
1246	3846	Spingolipid Receptor Edg1	AAA52336.1	1011	CPSGDSAGKFKRPIIAG	Homo sapiens
1247	3846	Spingolipid Receptor Edg1	AAA52336.1	1012	CPSGDSAGKFKRPIIAGME	Homo sapiens
1248	3846	Spingolipid Receptor Edg1	AAA52336.1	1013	RSKSDNSSHPQKDEGD	Homo sapiens
1249	3847	Spingolipid Receptor Edg3	Q99500	1028	ERHLMIKMRPYDANK	Homo sapiens
1250	3847	Spingolipid Receptor Edg3	Q99500	1029	LVKSSSRKVANHNNSE	Homo sapiens
1251	3847	Spingolipid Receptor Edg3	Q99500	1030	SPKVKEDELPHIDPSSC	Homo sapiens
1252	3847	Spingolipid Receptor Edg3	Q99500	1031	CLVRGARGARASPIQPALD	Homo sapiens
1253	3847	Spingolipid Receptor Edg3	Q99500	1752	REHYQVVGKLAGRLKEASE	Homo sapiens
1254	3848	C-C Chemokine Receptor 9	P51686	958	RAHTWREKRLLYSKMVC	Homo sapiens
1255	3848	C-C Chemokine Receptor 9	P51686	959	KEESGIAICTMVYPSDEST	Homo sapiens
1256	3848	C-C Chemokine Receptor 9	P51686	960	QAKKSSKHKALKVTIT	Homo sapiens
1257	3848	C-C Chemokine Receptor 9	P51686	961	GERFRDLVKTLKNLGC	Homo sapiens
1258	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	74	ENYSYDLDYVSLESDEEK	Homo sapiens
1259	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	75	RDTVEFNHNTLCYNNFQKHID	Homo sapiens
1260	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	76	SKKFQARFRSSVAEILK	Homo sapiens
1261	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	77	GTVSEQLRNSETKNLC	Homo sapiens
1262	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1087	HPLRRRISRLSAYAV	Homo sapiens
1263	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1088	CEEFWGSQERQQLYA	Homo sapiens
1264	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1089	SVYRVSVKLRNRVWPGC	Homo sapiens
1265	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1090	CVTGSQADWDRARRRR	Homo sapiens
1266	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1091	DSFREELRKLLVAWPRKIA	Homo sapiens

1267	3851	Receptor 10 (GPR10) G Protein-Coupled Receptor GPR12	AAA91630.1	78	GCISSLAQRARSPSD	Homo sapiens
1268	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	79	ENISAAVSSRVP AVEPEPE	Homo sapiens
1269	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	307	STCSVVRPLTKNNAA	Homo sapiens
1270	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	308	QSEATKLVTIGLIVAS	Homo sapiens
1271	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	84	KQKENECLGDYPEVLQE	Homo sapiens
1272	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	85	SMNNRTVQHGVTSLS	Homo sapiens
1273	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	86	ETLKLYDFFPSCDMRKDLR	Homo sapiens
1274	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	87	GRSVHVDFSSSESQSRHGS	Homo sapiens
1275	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1511	CLKNYDFGSSTETSDSLTK	Homo sapiens
1276	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1512	KALSTFIHAEDFARRRKRS	Homo sapiens
1277	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1612	ATSPNSDIRETHSHVP	Homo sapiens
1278	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1613	LMGALHFKPGSRRLLD	Homo sapiens
1279	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1615	GLPTLLSRELTJDDKPVC	Homo sapiens
1280	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	93	DRYMAIVQPKYAKELKNTC	Homo sapiens
1281	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	94	KDPDKDSTPATCLKISD	Homo sapiens
1282	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	95	GRTSKLKPKV/KEKSIR	Homo sapiens
1283	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	96	RNYLRSRLRRKSFRRGSLR	Homo sapiens
1284	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	97	KVSREKAKKMIAASWIFD	Homo sapiens
1285	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	98	DGRTVRRRTMNIVPRTKVK	Homo sapiens

1286	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	99	RRGMKETFCMSSMKC	Homo sapiens
1287	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	100	KTITKDSIYDSFDREAKEKK	Homo sapiens
1288	3856	G Protein-Coupled Receptor GPR2/CCRI0	P46092	1152	ALLFSQDGGQREGQRRRC	Homo sapiens
1289	3856	G Protein-Coupled Receptor GPR2/CCRI0	P46092	1153	SGDEEDAYSAEPLPELC	Homo sapiens
1290	3856	G Protein-Coupled Receptor GPR2/CCRI0	P46092	1154	ALLDTADLLAARERS	Homo sapiens
1291	3856	G Protein-Coupled Receptor GPR2/CCRI0	P46092	1155	RRLLRGGSSPSGPQRRGC	Homo sapiens
1292	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	101	KSGRHHLSAGPHALTQ	Homo sapiens
1293	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	102	RTNASGLEVPLHLFARLDE	Homo sapiens
1294	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	103	SRPGLLHQGRQRRVRAMQ	Homo sapiens
1295	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	104	GQHGEREPSSGDVSMHRSS	Homo sapiens
1296	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	105	SERQARFSSQSGETGEVQAC	Homo sapiens
1297	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	106	DPYTVRSKGPLNGC	Homo sapiens
1298	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	107	NSTLDGNGSSHFPCLL	Homo sapiens
1299	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	108	CASQTANDPYTVRSK	Homo sapiens
1300	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	109	EINMQSESNITVRDDIDD	Homo sapiens
1301	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	111	RRAVKRHRERRERQKRVFRM	Homo sapiens
1302	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	112	TRQKFQKVLKSKMKKR	Homo sapiens
1303	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	113	DPKRNKKITFEDSEIREKR	Homo sapiens
1304	3860	G Protein-Coupled Receptor SLC/MCH1	AAH01736.1	1532	CAPGQGGRRWRLPQPAWVEG	Homo sapiens
1305	3860	G Protein-Coupled	AAH01736.1	1533	EASLLTPGNASNTSDGPDN	Homo sapiens

1306	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1539	KGVGRAVGLGGSGCQATE	Homo sapiens
1307	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1565	RMITSSVAPASQSRIRLTKR	Homo sapiens
1308	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1567	RAVSNQAQADEERTESKG	Homo sapiens
1309	3861	Receptor SLC/MCH1 G Protein-Coupled	O00155	376	RGLQLPUGGQDSQCCEEP	Homo sapiens
1310	3861	Receptor GPR25 G Protein-Coupled	O00155	377	CRISRRLLRRPPHVGRARRNS	Homo sapiens
1311	3861	Receptor GPR25 G Protein-Coupled	O00155	378	RTGRLARRISSASSLSRDD	Homo sapiens
1312	3861	Receptor GPR25 G Protein-Coupled	O00155	483	DYSGLDGLEELELC PAGD	Homo sapiens
1313	3862	Receptor GPR25 G Protein-Coupled	AAB60402.1	118	TVYCLLGDAHSPLYT	Homo sapiens
1314	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	119	EGPTGPAAPLPSKAWD	Homo sapiens
1315	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	120	HFAAVFCIGSAEMSL	Homo sapiens
1316	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	121	GLITCGVVYPLSKNH	Homo sapiens
1317	3863	Receptor GPR3 G Protein-Coupled	O00270	1157	REPEKQPKLQRAQALVTLV	Homo sapiens
1318	3863	Receptor GPR31 G Protein-Coupled	O00270	1158	CHSFYSRADGSGFSIIWGEA	Homo sapiens
1319	3863	Receptor GPR31 G Protein-Coupled	O00270	1159	QNLGSCRALCAVAHTSDVTG	Homo sapiens
1320	3863	Receptor GPR31 G Protein-Coupled	O00270	1160	SPTRSSYRRVFHTLRGKGQ	Homo sapiens
1321	3864	Receptor GPR31 G Protein-Coupled	AAA98457.1	143	DELFRDRYNHTCFEKFPM E	Homo sapiens
1322	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	144	LRAVRGVSSTERQEKA KIKR	Homo sapiens
1323	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	145	RSDVAKALHNLRLFLASDK	Homo sapiens
1324	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	146	NASLTLETPLTSKRNSTAK	Homo sapiens

1325	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	166	FQYLPSETVSLTVG	Homo sapiens
1326	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	167	CLAERAAACSVVRPLARSH	Homo sapiens
1327	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	168	HLVVRICQVWVRHAH	Homo sapiens
1328	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	169	EIQRALWLLCGCFQSK	Homo sapiens
1329	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	171	ATAESRRVAGRTYSAAR	Homo sapiens
1330	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	172	RLDDEQGRRQCVLVFPQPE	Homo sapiens
1331	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	173	RLHAMRLDSHAKALERAKKR	Homo sapiens
1332	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	174	DASFRNLRLQITC	Homo sapiens
1333	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	175	NVSEQDNGTGHNAIFSEP	Homo sapiens
1334	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	176	RSRHMPWRTYRGAKVAS	Homo sapiens
1335	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	177	VLRSGAKALGKARRK	Homo sapiens
1336	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	178	LDDNFRKNFRSILRC	Homo sapiens
1337	3869	G Protein-Coupled Receptor HM74	BAA01721.1	179	QDHFLEIDKKNCVFRDD	Homo sapiens
1338	3869	G Protein-Coupled Receptor HM74	BAA01721.1	180	ARIWSLRQRQMDRHAQIKR	Homo sapiens
1339	3869	G Protein-Coupled Receptor HM74	BAA01721.1	181	CLQRKMTGEPDNNRSTSV	Homo sapiens
1340	3869	G Protein-Coupled Receptor HM74	BAA01721.1	182	DPNKTRGAPEALMANSGE	Homo sapiens
1341	3869	G Protein-Coupled Receptor HM74	BAA01721.1	183	SNNHKKGHCHQEPASLEKQ	Homo sapiens
1342	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1453	RQRQMDRHAQIKRAITFMV	Homo sapiens
1343	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1454	SPSYLGPTSNNHSSKKG	Homo sapiens
1344	3870	G Protein-Coupled Receptor HM74	Q15743	1192	AVRRSHGTQKSRKDKI	Homo sapiens

1345	3870	Receptor OGR1	Q15743	1193	LMHEEVIEDENQHRVC	Homo sapiens
1346	3870	G Protein-Coupled Receptor OGR1	Q15743	1194	CFVSETHRDLARLRG	Homo sapiens
1347	3870	G Protein-Coupled Receptor OGR1	Q15743	1195	CSRTGRAREAYPLGAPEASG	Homo sapiens
1348	3921	Prostaglandin Receptor	P43119	1188	CRMVYRQGRHGGSLGPRPT	Homo sapiens
1349	3921	Prostaglandin Receptor	P43119	1189	CFTQAVAPDSSEMGD	Homo sapiens
1350	3921	Prostaglandin Receptor	P43119	1190	ASGRDPRAPSAVVGKEGSC	Homo sapiens
1351	3921	Prostaglandin Receptor	P43119	1191	SAWGEQQVEPLPTQQ	Homo sapiens
1352	3923	Prostaglandin D2 Receptor	Q13258	458	KSPFYRCQNTTSVEKGN SAV	Homo sapiens
1353	3923	Prostaglandin D2 Receptor	Q13258	459	RNLYAMHRRRLQRHPRSC	Homo sapiens
1354	3923	Prostaglandin D2 Receptor	Q13258	503	CAEPRADGREASQPLEEL	Homo sapiens
1355	3923	Prostaglandin D2 Receptor	Q13258	504	KDVKEKNRTSEAEIDLRLR	Homo sapiens
1356	3924	Prostaglandin E Receptor EP1	P34995	962	AQAAGRLRRRRSATTF	Homo sapiens
1357	3924	Prostaglandin E Receptor EP1	P34995	963	CVGVT RPLLHAARVSVARAR	Homo sapiens
1358	3924	Prostaglandin E Receptor EP1	P34995	964	CNTLSGLALHRARWRR	Homo sapiens
1359	3924	Prostaglandin E Receptor EP1	P34995	965	ASGPD SRRRRWGAHGPR	Homo sapiens
1360	3924	Prostaglandin E Receptor EP1	P34995	966	SGSARRARAHDVEMVGQ	Homo sapiens
1361	3925	Prostaglandin E Receptor EP2	AAD44177.1	967	IALALLARRWRGDVGC	Homo sapiens
1362	3925	Prostaglandin E Receptor EP2	AAD44177.1	968	CETRQWLPPGESPAISSV	Homo sapiens
1363	3925	Prostaglandin E Receptor EP2	AAD44177.1	969	GPSLGSGRGGPGARRRGE	Homo sapiens
1364	3925	Prostaglandin E Receptor EP2	AAD44177.1	971	NETSSRKEKWDLQALR	Homo sapiens
1365	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	972	ERSAEARGNLTRPPGSGEDC	Homo sapiens
1366	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	973	SRSYRRRESKRKKSFLLC	Homo sapiens
1367	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	974	CRAKATASQSSAQWGR	Homo sapiens

1368	3926	EP3	Prostaglandin E2 Receptor	CAB52459.1	975	KFCQVANAVSSCSNDGQ	Homo sapiens
1369	3927	EP3	Prostaglandin E Receptor	P35408	382	RLSDFRRRRSFRRIAGAE	Homo sapiens
1370	3927	EP4	Prostaglandin E Receptor	P35408	383	EREVSKNPDLQAIRIAS	Homo sapiens
1371	3927	EP4	Prostaglandin E Receptor	P35408	384	DSQRTSSAMSGHSRSFSIRE	Homo sapiens
1372	3927	EP4	Prostaglandin E Receptor	P35408	385	RTLRISETSDSSQGGQDSE	Homo sapiens
1373	3928	Receptor	Prostaglandin F2-alpha	P43088	1046	ILMIKAYQRFRQKSKAS	Homo sapiens
1374	3928	Receptor	Prostaglandin F2-alpha	P43088	1047	ASDKEWIRFDQSNVLC	Homo sapiens
1375	3928	Receptor	Prostaglandin F2-alpha	P43088	1048	TKPIFHSTKITSKHVK	Homo sapiens
1376	3928	Receptor	Prostaglandin F2-alpha	P43088	1049	CFYNTEDIKDWDREFY	Homo sapiens
1377	3928	Receptor	Prostaglandin F2-alpha	P43088	1050	RVKFKSQQHIRQGGRSHLE	Homo sapiens
1378	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	252	QGTNRSSKGRSLIGKVDGTS	Homo sapiens
1379	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	253	QRYWVIVNPMGHSRKKAN	Homo sapiens
1380	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	255	SHDFRDHAKNALLCRSVR	Homo sapiens
1381	4051	Proteinase-Activated Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	256	VSLTSKKHSRKSSSYS	Homo sapiens
1382	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	257	ENDTNNLAKPTLPIKTFR	Homo sapiens
1383	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	258	CPEESASHLHVKNATMG	Homo sapiens
1384	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	260	QPDITTCDDVHNTCESSSP	Homo sapiens
1385	4052	Proteinase-Activated Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	261	MSKTRNIHSTAYLTK	Homo sapiens
1386	4090	G Protein-Coupled Receptor GPR17	G Protein-Coupled Receptor GPR17	CAB08108.1	88	RDHKSGETPANVFLMH	Homo sapiens

1387	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	90	RSLRQGLRVEKRLTKAVR	Homo sapiens
1388	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	91	RSHGASCATQRILALANR	Homo sapiens
1389	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	92	FEGKTNESSLAKSE	Homo sapiens
1390	4254	Rhodopsin	P08100	1051	RNCMLTICCGKNPLGD	Homo sapiens
1391	4254	Rhodopsin	P08100	1052	CGIDYYTLKPEVNNEFVI	Homo sapiens
1392	4254	Rhodopsin	P08100	1053	CWVPYASVAFYIFTHQGSN	Homo sapiens
1393	4254	Rhodopsin	P08100	1055	VLGGFTSLYTSLHG	Homo sapiens
1394	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1042	ATSSLLRRWPYGSDDGC	Homo sapiens
1395	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1043	CTLDYSKGDRNFTSFL	Homo sapiens
1396	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1044	MEQKLKSGHQLQVNTT	Homo sapiens
1397	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1045	MVCRGIWQCLSPQKRE	Homo sapiens
1398	4321	Secretin Receptor	P47872	950	CLQELSREQTDLGTEQ	Homo sapiens
1399	4321	Secretin Receptor	P47872	951	CPRFLRMLTSRNGSLFRN	Homo sapiens
1400	4321	Secretin Receptor	P47872	952	CGVNVNDSSNEKRHSY	Homo sapiens
1401	4321	Secretin Receptor	P47872	954	KDAVLFSSDDVTYCDAAH	Homo sapiens
1402	4321	Secretin Receptor	P47872	956	MIRKLRTQETRGNEVSH	Homo sapiens
1403	4480	Somatostatin Receptor Type 1	P30872	994	EEPGRNASQNGTLSEG	Homo sapiens
1404	4480	Somatostatin Receptor Type 1	P30872	996	CLSWMDNAAEEPVDY	Homo sapiens
1405	4480	Somatostatin Receptor Type 1	P30872	997	EDFQPENLESGGVFRNGTC	Homo sapiens
1406	4480	Somatostatin Receptor Type 1	P30872	2616	LSVDVNMFTSYC	Homo sapiens
1407	4480	Somatostatin Receptor Type 1	P30872	2618	RAYSVEDFQPENLES	Homo sapiens
1408	4481	Somatostatin Receptor Type 2	P30874	998	RSNQWGRSSCTINWPGE	Homo sapiens
1409	4481	Somatostatin Receptor Type 2	P30874	999	KVKSSGIRVGSSKRKKSE	Homo sapiens
1410	4481	Somatostatin Receptor Type	P30874	1000	CLVKVSGTDDGERSDS	Homo sapiens

1411	4481	2	Somatostatin Receptor Type	P30874	1001	KQDKSRLNETETQRT	Homo sapiens
1412	4481	2	Somatostatin Receptor Type	P30874	2276	DMADEPLUNGSHTWLSIP	Homo sapiens
1413	4482	2	Somatostatin Receptor Type	P32745	1002	KVRSAGRRVWVAPSCQR	Homo sapiens
1414	4482	3	Somatostatin Receptor Type	P32745	2622	REGGKGEMNGRVSQI	Homo sapiens
1415	4482	3	Somatostatin Receptor Type	P32745	2624	TTSEPENASSAWPPD	Homo sapiens
1416	4482	3	Somatostatin Receptor Type	P32745	2626	QPGTSGGQERPPSRVA	Homo sapiens
1417	4483	3	Somatostatin Receptor Type	P31391	1007	IFADTRPARGGQAVAC	Homo sapiens
1418	4483	4	Somatostatin Receptor Type	P31391	1008	CLLEGAGGAEEEPDLY	Homo sapiens
1419	4483	4	Somatostatin Receptor Type	P31391	2627	KMRAVALRAGWQQR	Homo sapiens
1420	4483	4	Somatostatin Receptor Type	P31391	2631	CRAVLVSDGLNMFTSV	Homo sapiens
1421	4483	4	Somatostatin Receptor Type	P31391	2633	CLVGLVGNALVIFVIL	Homo sapiens
1422	4484	5	Somatostatin Receptor Type	NP_001044.1	2637	SLPLLVFADVQEGGTC	Homo sapiens
1423	4484	5	Somatostatin Receptor Type	NP_001044.1	2638	CLRKGSGAKDADATEP	Homo sapiens
1424	4484	5	Somatostatin Receptor Type	NP_001044.1	2639	RIRQQQEQEATPPAHRAAA	Homo sapiens
1425	4484	5	Somatostatin Receptor Type	NP_001044.1	2643	RVAKLASAAAWVLSLC	Homo sapiens
1426	4552	5	Tachykinin Receptor 1	AAA36641.1	1339	CMIEWPEHPNKIYKV	Homo sapiens
1427	4552	5	Tachykinin Receptor 1	AAA36641.1	1340	CPFISAGDYEGLMKSTRYL	Homo sapiens
1428	4552	5	Tachykinin Receptor 1	AAA36641.1	1341	KVSRLETTISTVGAHEE	Homo sapiens
1429	4552	5	Tachykinin Receptor 1	AAA36641.1	1342	EPEDGPKATPSSLDLTNSC	Homo sapiens
1430	4687	5	Thrombin Receptor	P25116	1202	EDEEKNESGLTEYRLV	Homo sapiens
1431	4687	5	Thrombin Receptor	P25116	2582	AVANIRSKSRALFLSAAVFC	Homo sapiens
1432	4687	5	Thrombin Receptor	P25116	2583	SINKSSPLQKQLPAFISE	Homo sapiens

1433	4687	Thrombin Receptor	P25116	2621	DPRSFLLRNPNDKYEFWFWE	Homo sapiens
1434	4734	Thyrotropin Releasing Hormone Receptor	P34981	1196	PSDPKENSKTWKNDST	Homo sapiens
1435	4734	Thyrotropin Releasing Hormone Receptor	P34981	1197	CFNSTVSSRKQVTKMLA	Homo sapiens
1436	4734	Thyrotropin Releasing Hormone Receptor	P34981	1198	RAAFRKLNCNCKQKPTIE	Homo sapiens
1437	4734	Thyrotropin Releasing Hormone Receptor	P34981	1199	KPANYSV/ALNYSVIKE	Homo sapiens
1438	4734	Thyrotropin Releasing Hormone Receptor	P34981	1200	KESDHFSTELDDITVTD	Homo sapiens
1439	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1771	EIQKNKPRNDDIFKII	Homo sapiens
1440	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1772	SYRPSDNVSSSTIKKPAPC	Homo sapiens
1441	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1773	LNSSTEDGIKRIQDDC	Homo sapiens
1442	4946	Angiotensin II Type 2 Receptor	P50052	1321	CSQKPSDKHLDAPIL	Homo sapiens
1443	4946	Angiotensin II Type 2 Receptor	P50052	1322	DRYGSVIVPFLSQRRN	Homo sapiens
1444	4946	Angiotensin II Type 2 Receptor	P50052	1323	RKHLTKNSYGNRITRD	Homo sapiens
1445	4946	Angiotensin II Type 2 Receptor	P50052	1324	RVPTWLQGGKRESMSC	Homo sapiens
1446	5072	Pyrimidinergic Receptor P2Y4	P51582	1142	CHDTRPEEFDHVVFSSA	Homo sapiens
1447	5072	Pyrimidinergic Receptor P2Y4	P51582	1145	YLLTGDKYRRQLRQLC	Homo sapiens
1448	5072	Pyrimidinergic Receptor P2Y4	P51582	2696	HPLRALRWGRPRLAG	Homo sapiens
1449	5072	Pyrimidinergic Receptor P2Y4	P51582	2697	HIITRTIYVLARLEADC	Homo sapiens
1450	5117	Vasopressin V1A Receptor	AAA62271.1	262	REAEALGEGNGPPRDVRNEE	Homo sapiens
1451	5117	Vasopressin V1A Receptor	AAA62271.1	263	NVRGKTASRQSKGAEQ	Homo sapiens
1452	5117	Vasopressin V1A Receptor	AAA62271.1	264	QNMKEKFNKEDTDSMSRRQ	Homo sapiens
1453	5117	Vasopressin V1A Receptor	AAA62271.1	265	RQTFYSNNRSPNTSGMWKD	Homo sapiens
1454	5118	Vasopressin V1B Receptor	AAA65687.1	266	NATPWLGREELAKVE	Homo sapiens
1455	5118	Vasopressin V1B Receptor	AAA65687.1	267	TRGLPSRVSSINTISRAKIR	Homo sapiens

1456	5118	Vasopressin V1B Receptor	AAA65687.1	268	QPRMRRRLSDGSLSRH	Homo sapiens
1457	5118	Vasopressin V1B Receptor	AAA65687.1	269	ESPRDLELADGEGTAET	Homo sapiens
1458	5119	Vasopressin V2 Receptor	CAA77746.1	270	SNSSQERPLDTRDPLLAAE	Homo sapiens
1459	5119	Vasopressin V2 Receptor	CAA77746.1	271	RHGSGAHWNRPVLVAWAFS	Homo sapiens
1460	5119	Vasopressin V2 Receptor	CAA77746.1	272	CQVLIFREIHASLVGPSPER	Homo sapiens
1461	5119	Vasopressin V2 Receptor	CAA77746.1	273	RGRTPPSLGPQDESC	Homo sapiens
1462	5133	Peropsin	O14718	1147	KNEDGSVFSQTEHNIV	Homo sapiens
1463	5133	Peropsin	O14718	1148	IKYKELRPTNAIIIN	Homo sapiens
1464	5133	Peropsin	O14718	1149	RKNDRSFVSMTMIVA	Homo sapiens
1465	5133	Peropsin	O14718	1150	CTESLNIRDWSDQIDVTK	Homo sapiens
1466	5133	Peropsin	O14718	1151	VANKKFRRAMLAMFKC	Homo sapiens
1467	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	987	CGPAGRTSSRSQSLRSDAR	Homo sapiens
1468	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	988	EENRDKWEEAQLAGPN	Homo sapiens
1469	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	989	CRVVDREQEEGNGDSGG	Homo sapiens
1470	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	990	KRDKAPKSSFVGDGDI	Homo sapiens
1471	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	991	RKLQHAAEKDKEVLGP	Homo sapiens
1472	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	981	CLRPSPEEAVAQAESEVGR	Homo sapiens
1473	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	982	GSSNDLFTTEMRYGEE	Homo sapiens
1474	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	983	MARDGISDKSKKQRAGSERC	Homo sapiens
1475	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	984	EDAPRARPEGTPRRAAK	Homo sapiens
1476	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	985	RSRTMPRTVPGSTMKMGSL	Homo sapiens
1477	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	986	KREKRWSVSSGGAAERSVC	Homo sapiens
1478	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	976	RRVFPTNFPGLQKKGE	Homo sapiens
1479	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	977	CNLTREAKRPPKKEEFG	Homo sapiens
1480	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	978	KLKHRAGQMSEPHSGLTKC	Homo sapiens

1481	5521	Inhibitor 3				979	CTDNLRLRGADMDIVHPQER	Homo sapiens
1482	5521	Brain-Specific Angiogenesis Inhibitor 3		O60242		980	SRSETGSTISMSSLERR	Homo sapiens
1483	6031	Inhibitor 3				1101	NDSSQEEHQDFLQFSK	Homo sapiens
1484	6031	SIV/HIV Receptor BONZO		O00574		1102	KATKAYNQQAQRMTWG	Homo sapiens
1485	6031	SIV/HIV Receptor BONZO		O00574		1103	KTLHAGGGFGKHRSK	Homo sapiens
1486	6031	SIV/HIV Receptor BONZO		O00574		1104	SLKFRKNFWKLVDIGC	Homo sapiens
1487	6031	SIV/HIV Receptor BONZO		O00574		1105	KSEEDNSKTFASHNV	Homo sapiens
1488	6204	Lysophosphatidic Acid Receptor Edg4		AAC27728.1		66	ERHRSVMAVQLHSRLPRGR	Homo sapiens
1489	6204	Lysophosphatidic Acid Receptor Edg4		AAC27728.1		67	RRRVQRMAEHVSCHPRYRE	Homo sapiens
1490	6204	Lysophosphatidic Acid Receptor Edg4		AAC27728.1		68	NAAVVSCRDAEMRRTRR	Homo sapiens
1491	6204	Lysophosphatidic Acid Receptor Edg4		AAC27728.1		69	RQSTRESVHYTSSAQGGAST	Homo sapiens
1492	6213	C-C Chemokine Receptor 5		AAC50598.1		38	YSQYQFWKNFQTLK	Homo sapiens
1493	6213	C-C Chemokine Receptor 5		AAC50598.1		39	QQEAPERASSVYTRSTGEQE	Homo sapiens
1494	6213	C-C Chemokine Receptor 5		AAC50598.1		40	RSQKEGLHYTCSHFPSQ	Homo sapiens
1495	6213	C-C Chemokine Receptor 5		AAC50598.1		309	MDYQVSSPIYDINYYTSEPC	Homo sapiens
1496	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)		O00421		1092	EDEYDVLEGELESEAEQC	Homo sapiens
1497	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)		O00421		1093	KGNFFSARRRVPCGIITSVL	Homo sapiens
1498	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)		O00421		1094	MRKTLRFREQRYSLFKLVFA	Homo sapiens
1499	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)		O00421		1096	RSNTPLQPRGQSAQGSRE	Homo sapiens
1500	6446	Pael Receptor (GPR37)		AAC51281.1		127	GPGNSARDVLRARAPREEQG	Homo sapiens
1501	6446	Pael Receptor (GPR37)		AAC51281.1		129	DPGGPRRGNSTNRRVRLKNP	Homo sapiens
1502	6446	Pael Receptor (GPR37)		AAC51281.1		130	LRQLSKEDLGFSGRAPAERC	Homo sapiens
1503	6446	Pael Receptor (GPR37)		AAC51281.1		131	PRGAVISGRSQEQSVKTVPG	Homo sapiens
1504	6446	Pael Receptor (GPR37)		AAC51281.1		1781	CIQKSSTVTSDDNDNEYTE	Homo sapiens
1505	6446	Pael Receptor (GPR37)		NP_005293.1		1806	CIQKSSTVTSDDNDNEYTE	Homo sapiens
1506	6536	Putative Neurotransmitter Receptor (PNR)		O14804		319	TDVVETRLSQWLEEMP	Homo sapiens

1507	6536	Putative Neurotransmitter Receptor (PNR)	O14804	320	KSLAGAAKHERKAAKT	Homo sapiens
1508	6536	Putative Neurotransmitter Receptor (PNR)	O14804	321	RKALKLTLSQKVFSPQTR	Homo sapiens
1509	6536	Putative Neurotransmitter Receptor (PNR)	O14804	485	HPAAFCYQVNGSCPR	Homo sapiens
1510	6777	Putative Neurotransmitter Receptor (PNR)	O60478	788	KAISKYSPPELLKYRLP	Homo sapiens
1511	6777	Receptor TM7SF1	O60478	790	KTGNWERKVIVSVRVA	Homo sapiens
1512	6777	G Protein-Coupled Receptor TM7SF1	O60478	791	KSVHSFDYDWNVSDQAD	Homo sapiens
1513	6777	G Protein-Coupled Receptor TM7SF1	O60478	792	RVRNPTKDLTNPQMVP	Homo sapiens
1514	6777	G Protein-Coupled Receptor TM7SF1	O60478	793	RYDSDDDLAWNIAPOGGLQ	Homo sapiens
1515	6853	Purinergic Receptor P2Y11	O43190	865	PTLSFHLKRPQGGAGNC	Homo sapiens
1516	6853	Purinergic Receptor P2Y11	O43190	866	GALGRAVLRSPGMTVAE	Homo sapiens
1517	6853	Purinergic Receptor P2Y11	O43190	867	MRVLNVDAARRWSTRC	Homo sapiens
1518	6853	Purinergic Receptor P2Y11	O43190	868	CPGYRDSWNPEDAKSTGQA	Homo sapiens
1519	6853	Purinergic Receptor P2Y11	O43190	2299	CPANFLAAADKLSGFQGD	Homo sapiens
1520	6853	Purinergic Receptor P2Y11	O43190	2300	ASNGALYRFSIRKQR	Homo sapiens
1521	6921	Purinergic Receptor P2Y11 G Protein-Coupled Receptor GPR39	AAC26082.1	137	CNRSSTRHIEQPETSN	Homo sapiens
1522	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	139	PNQIRRIMAAAKPKHD	Homo sapiens
1523	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	140	EKRLRVHAHSTTDSAR	Homo sapiens
1524	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	141	VQRPLLFASSRQSSARTEK	Homo sapiens
1525	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	142	QSEAEPPQSKSQSLLESLEP	Homo sapiens
1526	7221	Galanin Receptor GalR2	AAC39634.1	197	NLTVCHPAWSAPRRRAMD	Homo sapiens
1527	7221	Galanin Receptor GalR2	AAC39634.1	198	RAVDPAAGSGARRAKRK	Homo sapiens
1528	7221	Galanin Receptor GalR2	AAC39634.1	199	GRAPGRASGRVCAAAARG	Homo sapiens
1529	7221	Galanin Receptor GalR2	AAC39634.1	200	ERESDLLHMSEAAAGALRPC	Homo sapiens
1530	7246	Orexin Receptor 1	AAC39601.1	235	DQLGDLEQGLSGEPQP	Homo sapiens
1531	7246	Orexin Receptor 1	AAC39601.1	236	EPSATPGAQMGMVPPGSR	Homo sapiens

1532	7246	Orexin Receptor 1	AAC39601.1	237	KRPDQLGLDLEQGLSGEPQ	Homo sapiens
1533	7246	Orexin Receptor 1	AAC39601.1	239	KAPSPRSSASHKSLQSRRC	Homo sapiens
1534	7247	Orexin Receptor 2	AAC39602.1	240	SELNETQEPFLNPTDYDDEE	Homo sapiens
1535	7247	Orexin Receptor 2	AAC39602.1	241	KWKPLQPVSQPRGPGQ	Homo sapiens
1536	7247	Orexin Receptor 2	AAC39602.1	242	TKSRMSAVAAEIKQIRA	Homo sapiens
1537	7247	Orexin Receptor 2	AAC39602.1	243	RQEDRLTRGRSTESRKS	Homo sapiens
1538	8436	Platelet-Activating Factor Receptor	P25105	1097	AVTRPIKTAQANTRKR	Homo sapiens
1539	8436	Platelet-Activating Factor Receptor	P25105	1098	DSTNTVPDSAGSGNVTRC	Homo sapiens
1540	8436	Platelet-Activating Factor Receptor	P25105	1099	QQRNAEVKRRALWMVC	Homo sapiens
1541	8436	Platelet-Activating Factor Receptor	P25105	1100	KKFRKHLTEKFYSMRSSRKC	Homo sapiens
1542	8509	G Protein-Coupled Receptor Ls8509	Q14439	398	DRYYSVLPLERKISDAKSR	Homo sapiens
1543	8509	G Protein-Coupled Receptor Ls8509	Q14439	400	DEESEAKEYIGSADFQAKE	Homo sapiens
1544	8509	G Protein-Coupled Receptor Ls8509	Q14439	401	ETRNSKKRLPLPLGNTPPE	Homo sapiens
1545	8509	G Protein-Coupled Receptor Ls8509	Q14439	402	ELUQTKVPKVGRVERKMSR	Homo sapiens
1546	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1078	KKQRKAQNFTSILIAN	Homo sapiens
1547	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1079	FRNLSLPTDLYTHQVAC	Homo sapiens
1548	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1080	CVENWPSKKDRLLFTT	Homo sapiens
1549	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1081	CLRRRNAKVDDKKENEGR	Homo sapiens
1550	9421	Neuropeptide Y Receptor Type 1	P25929	1064	DEPFQNVTLDAYKDKYVC	Homo sapiens
1551	9421	Neuropeptide Y Receptor Type 1	P25929	1065	CYFKIYIRLKRNNIMMDK	Homo sapiens
1552	9421	Neuropeptide Y Receptor Type 1	P25929	1066	CDFRSRDDDYETIAMS	Homo sapiens
1553	9421	Neuropeptide Y Receptor Type 1	P25929	1498	ENDDCHLPLAMIFTLALA	Homo sapiens
1554	9421	Neuropeptide Y Receptor Type 1	P25929	2291	SNFSEKNAQALLAFENDDC	Homo sapiens

1555	9834	Type 1 Corticotropin releasing factor Receptor 1	NP_004373.1	1778	CESLSLASNISDNGYRE	Homo sapiens
1556	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	1779	CQEILNEEKSKVHYHVA	Homo sapiens
1557	10457	Frizzled-2	NP_001457.1	1774	NHSEDGAPALLTAPP	Homo sapiens
1558	10457	Frizzled-2	NP_001457.1	1775	GGAPPRYATLEHPFHC	Homo sapiens
1559	10457	Frizzled-2	NP_001457.1	1776	CEPARPDGSMFSGEE	Homo sapiens
1560	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1082	AAREAGAAVRRPLGPE	Homo sapiens
1561	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1083	LYRRRPPREKIGRRRA	Homo sapiens
1562	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1085	PRELAAGQSFHGCCLYR	Homo sapiens
1563	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNPIIY20)	AAB97766.1	1086	CKTVRLSDVRVRPVNTIYAR	Homo sapiens
1564	14198	Interleukin-8 Receptor B	P25025	802	EDFWKGEDLSNYSYS	Homo sapiens
1565	14198	Interleukin-8 Receptor B	P25025	803	PPFLDAAAPCEPESLE	Homo sapiens
1566	14198	Interleukin-8 Receptor B	P25025	804	RRTVYSSNVSPACYE	Homo sapiens
1567	14198	Interleukin-8 Receptor B	P25025	805	SKDSLPKDSRPSFVGS	Homo sapiens
1568	14641	Calcitonin Receptor	P30988	766	PKPLYVVGRRKKMMDAQYKC	Homo sapiens
1569	14641	Calcitonin Receptor	P30988	769	VEVVPNGELVRRDPVSC	Homo sapiens
1570	14641	Calcitonin Receptor	P30988	771	KIQWNQIRWGRRPSNRS	Homo sapiens
1571	14641	Calcitonin Receptor	P30988	772	CHQEPRIEPAANNQGEESAE	Homo sapiens
1572	16041	C-C Chemokine Receptor 6	P51684	355	TKSFRILRSRTLPRSKIIC	Homo sapiens
1573	16041	C-C Chemokine Receptor 6	P51684	356	STFVFNQKYNTQGSDVCE	Homo sapiens
1574	16041	C-C Chemokine Receptor 6	P51684	357	TAANLGKMINRSCQSE	Homo sapiens
1575	16041	C-C Chemokine Receptor 6	P51684	358	RYSENISRQITSETADNDNAS	Homo sapiens
1576	16599	Smoothed	NP_005622.1	2595	CPLAPPELHPPAPAP	Homo sapiens
1577	16599	Smoothed	NP_005622.1	2666	CAIVERERGWPDFLR	Homo sapiens
1578	16599	Smoothed	NP_005622.1	2667	CTNEVQNIKFNSSGQ	Homo sapiens
1579	16599	Smoothed	NP_005622.1	2668	CEVPLVRTDNPKSWYE	Homo sapiens
1580	16599	Smoothed	NP_005622.1	2669	CRADGTMRLGEPTSNE	Homo sapiens

1581	16599	Smoothed	NP_005622.1	2670	EAEISPELQRLGRKK	Homo sapiens
1582	16599	Smoothed	NP_005622.1	2671	ANVTIGLPTKQIPDC	Homo sapiens
1583	17250	G Protein-Coupled Receptor GPR45	O43898	1227	SNASDSGSTQLPAPLR	Homo sapiens
1584	17250	G Protein-Coupled Receptor GPR45	O43898	1228	CVLGYTELPADRAYVW	Homo sapiens
1585	17250	G Protein-Coupled Receptor GPR45	O43898	1249	LNTVRKNVAVRVHINQSD	Homo sapiens
1586	17250	G Protein-Coupled Receptor GPR45	O43898	1272	KVPERIRRIQPSTVYC	Homo sapiens
1587	17250	G Protein-Coupled Receptor GPR45	O43898	1273	DSLDLRQLTRAGLRRL	Homo sapiens
1588	17345	G Protein-Coupled Receptor D6	LR13	363	EDADAENSSFYYDYLDE	Homo sapiens
1589	17345	G Protein-Coupled Receptor D6	LR13	364	DKYLEIVHAQPYHRLRTR	Homo sapiens
1590	17345	G Protein-Coupled Receptor D6	LR13	365	CVLVRIRPAGQGRALK	Homo sapiens
1591	17345	G Protein-Coupled Receptor D6	LR13	366	DLGERQSENVPNKEDVGNIK	Homo sapiens
1592	17535	Gaba(b) Receptor 1	O95375	188	EKLTKRLKRHPETGGFQEA	Homo sapiens
1593	17535	Gaba(b) Receptor 1	O95375	189	KKEEKEWRKTLPEWK	Homo sapiens
1594	17535	Gaba(b) Receptor 1	O95375	190	DPLHRTIETFAKEPKEDID	Homo sapiens
1595	17535	Gaba(b) Receptor 1	O95375	191	YEIEWVCRGEREVGPKVRK	Homo sapiens
1596	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1205	SLWETVQKWREYRRQC	Homo sapiens
1597	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1206	LQKDNSSLPWRLDSEC	Homo sapiens
1598	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1208	CIVVSKLKANLMCKTD	Homo sapiens
1599	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1209	RWRLEHLHIQRDSSMKPLKC	Homo sapiens
1600	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1520	CQVDETEEPDVHLPQP	Homo sapiens
1601	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1521	REGLEAAGAAGASAAASYSS	Homo sapiens
1602	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1522	KLPSARAKIRITSSPI	Homo sapiens
1603	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1523	ESKSSIKRVLAITTVLS	Homo sapiens

1604	18471	Receptor LOC51210 G Protein-Coupled	NP_057456.1	1524	QGTLEILYPD AHLSAED	Homo sapiens
1605	18471	Receptor LOC51210 G Protein-Coupled	NP_057456.1	1525	PKTPLKERISLPSRRS	Homo sapiens
1606	19072	Receptor LOC51210 G Protein-Coupled	ENSP00000164265	2030	SVVQLRRQRPD FEWNEGLC	Homo sapiens
1607	19072	Receptor Ls19072 G Protein-Coupled	ENSP00000164265	2032	PAVGWHDTSERFYTHGC	Homo sapiens
1608	19072	Receptor Ls19072 G Protein-Coupled	ENSP00000164265	2047	AVQVGRQADRRRAFTVPT	Homo sapiens
1609	19501	Receptor Ls19072 G Protein-Coupled	Q9UIZ3	1513	EHEPAGEEALRQKRAVATK	Homo sapiens
1610	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1514	ALRQKRAVATKSPTAE	Homo sapiens
1611	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1515	CEKEVLSSNVSWRYEEQQLE	Homo sapiens
1612	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1518	RLANNTGGWDSSGCWVEEGD	Homo sapiens
1613	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1519	CKQEKSLFQISKSIG	Homo sapiens
1614	21632	Receptor KIAA0758 G Protein-Coupled	BAA96055.1	2164	CTAFQRREGGVPGTRPGSPG	Homo sapiens
1615	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2166	APGTRASRRCDRAGRWE	Homo sapiens
1616	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2167	CPAERVANNRGDFRWPR	Homo sapiens
1617	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2171	QNPPEPEPPADQQLRFRC	Homo sapiens
1618	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2175	VPLGGGAPGTRASRRC	Homo sapiens
1619	22315	Receptor Ls21632 G Protein-Coupled	LR29	425	PAARVHRPSRCRYRD	Homo sapiens
1620	22315	Receptor GPR92/GPR93 G Protein-Coupled	LR29	426	TLARPDATQSQRRRKTVRL	Homo sapiens
1621	22315	Receptor GPR92/GPR93 G Protein-Coupled	LR29	427	RSKLVAASVPARDRVRG	Homo sapiens
1622	22315	Receptor GPR92/GPR93 G Protein-Coupled	LR29	428	AGSERSAVTTDATRPD	Homo sapiens

1623	22925	Latrophilin-3	O94867	1138	CSGKSTESSIGSGKTSGR	Homo sapiens
1624	22925	Latrophilin-3	O94867	1140	ENHQPHHYTRRRIPQD	Homo sapiens
1625	22925	Latrophilin-3	O94867	1141	ESVTSTQTEPPPAKC	Homo sapiens
1626	22925	Latrophilin-3	O94867	1497	SSASLNREGLLNNARD	Homo sapiens
1627	25359	G Protein-Coupled Receptor GPR34	O95853	1255	DRYKINRSIQQRKAIT	Homo sapiens
1628	25359	G Protein-Coupled Receptor GPR34	O95853	1257	CFHYRDKHNAKGEAIFN	Homo sapiens
1629	25359	G Protein-Coupled Receptor GPR34	O95853	1258	RISKRRSKFPNSGKYA	Homo sapiens
1630	25359	G Protein-Coupled Receptor GPR34	O95853	1259	CQLLFRFRFQGEPSRSESTSE	Homo sapiens
1631	30698	G Protein-Coupled Receptor GPR34	CAC27252.1	2721	RLQEILTFEKINKTR	Homo sapiens
1632	30698	Receptor Ls30698	CAC27252.1	2722	KGKSRAAENASLGPTN	Homo sapiens
1633	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2723	LLFGTIMDHIKIRDALR	Homo sapiens
1634	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2724	RPSIGSSKSQDVVIMRI	Homo sapiens
1635	30875	G Protein-Coupled Receptor Ls30698	NP_076404.1	1579	KLPNNELHGQESHNSGN	Homo sapiens
1636	30875	Receptor GPR87/GPR95	NP_076404.1	1580	SGNRSDGPGKNTTLHNEFD	Homo sapiens
1637	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1581	RQFISQSSRKRRKHNGSIR	Homo sapiens
1638	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1582	SHLDRLDESAQKILYYC	Homo sapiens
1639	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1584	CRSFSRRLFKKSNIRTRSE	Homo sapiens
1640	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1585	ESIRSLQSVRRSEVRIVYD	Homo sapiens
1641	31568	G Protein-Coupled Receptor RE2	O75963	331	CRKELSNLITEEGGEGGV	Homo sapiens
1642	31568	G Protein-Coupled Receptor RE2	O75963	332	EEDAQRTRGRKNSSTSTSSS	Homo sapiens
1643	31568	G Protein-Coupled Receptor RE2	O75963	333	CFGDRYYREPFPVQRQRISR	Homo sapiens
1644	31568	G Protein-Coupled Receptor RE2	O75963	334	HSSSTGDTGTFSCSQDQSGNL	Homo sapiens

1645	36534	Receptor RE2	O75473	1232	CQKLQKIDLRHNEIVEIKVD	Homo sapiens
1646	36534	G Protein-Coupled Receptor GPR49	O75473	1233	NKGDNSSMDDLHKDA	Homo sapiens
1647	36534	G Protein-Coupled Receptor GPR49	O75473	1234	QDERDLEDFLDFFED	Homo sapiens
1648	36534	G Protein-Coupled Receptor GPR49	O75473	1235	ERGSVKYSAKFETKA	Homo sapiens
1649	36534	G Protein-Coupled Receptor GPR49	O75473	1236	RSKHPSLMSINSDDVEKQSC	Homo sapiens
1650	37498	Xenotropic and Polytypic Retrovirus Receptor (XPR1)	NP_004727.1	2597	DAQKESTGVTLRQRR	Homo sapiens
1651	37498	Xenotropic and Polytypic Retrovirus Receptor (XPR1)	NP_004727.1	2600	CKKINQISETAEVVTN	Homo sapiens
1652	37498	Xenotropic and Polytypic Retrovirus Receptor (XPR1)	NP_004727.1	2610	ADDQTLLQMMMDQDDG	Homo sapiens
1653	37498	Xenotropic and Polytypic Retrovirus Receptor (XPR1)	NP_004727.1	2672	KYNGSISLRPRLASQ	Homo sapiens
1654	37498	Xenotropic and Polytypic Retrovirus Receptor (XPR1)	NP_004727.1	2673	KRYFAKFEKFFQTC	Homo sapiens
1655	37498	Xenotropic and Polytypic Retrovirus Receptor (XPR1)	NP_004727.1	2674	DGDRQKAMKRLRPPL	Homo sapiens
1656	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2103	RVRSGRVRSYSTRDFQDC	Homo sapiens
1657	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2105	CNNSVPGKEHPFDITVMIRE	Homo sapiens
1658	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2106	APSKPGLPKPQATVPRKVD	Homo sapiens
1659	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2135	AASKPKSTPAVIQGPSKGD	Homo sapiens
1660	42697	G Protein-Coupled Receptor GPR64	O00406	1261	KRSELNKTILQTLSETYFIMC	Homo sapiens
1661	42697	G Protein-Coupled Receptor GPR64	O00406	1262	GNASTERNGVSFSVQNGDVC	Homo sapiens
1662	42697	G Protein-Coupled Receptor GPR64	O00406	1263	CRISKKKQLGAQIKTSIQD	Homo sapiens
1663	42697	G Protein-Coupled Receptor GPR64	O00406	1264	DFTGKGHMFNEKEDSC	Homo sapiens

1664	45937	KIAA1624 Protein	AAK57695	2072	PNVNPASAGNQTKTQD	Homo sapiens
1665	45937	KIAA1624 Protein	AAK57695	2073	RVKSPPEAGTQLPKIFS	Homo sapiens
1666	45937	KIAA1624 Protein	AAK57695	2074	KDGYMNVNVSLSLNEPED	Homo sapiens
1667	45937	KIAA1624 Protein	AAK57695	2076	RSTVDSKAMGEKSFVHNNG	Homo sapiens
1668	50847	Neurotensin Receptor type 2	O95665	1265	CQPLRARSLTPRRTR	Homo sapiens
1669	50847	Neurotensin Receptor type 2	O95665	1266	GQKHELETADGEPEASRVC	Homo sapiens
1670	50847	Neurotensin Receptor type 2	O95665	1267	KKTFIQGGQVSLVRHKD	Homo sapiens
1671	50847	Neurotensin Receptor type 2	O95665	1269	CGEHHPMKRLPPKPQSP	Homo sapiens
1672	50847	Neurotensin Receptor type 2	O95665	2294	STSTPGSSSTPSRLLELSEE	Homo sapiens
1673	50847	Neurotensin Receptor type 2	O95665	2301	METSSPRPPRPSSNPG	Homo sapiens
1674	50847	Neurotensin Receptor type 2	O95665	2302	CSQVPSTSTPGSSTPSR	Homo sapiens
1675	53440	G Protein-Coupled Receptor LS53440	LR76	1850	DPNGNESSATYFIUG	Homo sapiens
1676	53440	G Protein-Coupled Receptor LS53440	LR76	1851	RHATVTLPRVTIGV	Homo sapiens
1677	53440	G Protein-Coupled Receptor LS53440	LR76	1852	ILKTVLGLTREAQAKA	Homo sapiens
1678	53440	G Protein-Coupled Receptor LS53440	LR76	1853	HRFSKRDRDSPLPVILAN	Homo sapiens
1679	53440	G Protein-Coupled Receptor LS53440	LR76	1854	KEIRQRILRLHFVATHASE	Homo sapiens
1680	54053	Gaba(b) Receptor 2	O75899	1416	GEDIEISDTESFSNDPC	Homo sapiens
1681	54053	Gaba(b) Receptor 2	O75899	1417	SSKQIKTISGKTPQQYE	Homo sapiens
1682	54053	Gaba(b) Receptor 2	O75899	1419	AATQNRFRFQFTQNGKKE	Homo sapiens
1683	54053	Gaba(b) Receptor 2	O75899	1420	CKDPIEDINSPEHIQRR	Homo sapiens
1684	55728	ETL protein	NP_071442.1	2113	CVLSRKIQEEYVRLFKNVP	Homo sapiens
1685	55728	ETL protein	NP_071442.1	2114	CIAANINKTLTKRSIKEP	Homo sapiens
1686	55728	ETL protein	NP_071442.1	2115	KL SVNHRRTHTLKLMTVE	Homo sapiens
1687	55728	ETL protein	NP_071442.1	2116	EKITFTLSHRKVTDRYSLC	Homo sapiens
1688	55728	ETL protein	NP_071442.1	2117	SSSLLGYKNNTISAKD	Homo sapiens
1689	56923	Muscarinic acetylcholine	P20309	1421	CSSYELQQQSMKRSNRK	Homo sapiens

1690	56923	Receptor M3 Muscarinic acetylcholine Receptor M3	P20309	1422	KPSEQMDQDHSSDSWNNN	Homo sapiens
1691	56923	Muscarinic acetylcholine Receptor M3	P20309	1423	DLERKADKLQAQKSVD	Homo sapiens
1692	56923	Muscarinic acetylcholine Receptor M3	P20309	1424	KEATLAKRFALKTRSQ	Homo sapiens
1693	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2097	PPTCRPRRMISVCYRPPGNE	Homo sapiens
1694	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2098	CLAVTRPFLAPRLRSPALAR	Homo sapiens
1695	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2099	RGARWGSGRHGARVGR	Homo sapiens
1696	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2100	TAGDLLPRAGPRFLTR	Homo sapiens
1697	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2101	EGSGEARGGGRSREGTME	Homo sapiens
1698	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2102	RTTQLKVVGGQGRNGD	Homo sapiens
1699	73584	Cadherin EGF LAG Seven- Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1909	RSAPTALSRLRLRARTHLPGC	Homo sapiens
1700	73584	Cadherin EGF LAG Seven- Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1910	VRGSHGEPDASLMRSC	Homo sapiens
1701	73584	Cadherin EGF LAG Seven- Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1911	RKEDSVLMEATSGGPTSFR	Homo sapiens
1702	73584	Cadherin EGF LAG Seven- Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1912	DQNKADIGGMLPGLTVRSV	Homo sapiens
1703	73584	Cadherin EGF LAG Seven- Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1913	PAGWPDQSLAESDSEDPG	Homo sapiens
1704	74514	5-HT5A Receptor	NP_076917.1	2118	ETNHSLGKDDLRPSSP	Homo sapiens
1705	74514	5-HT5A Receptor	NP_076917.1	2119	SLVHELSGRRWQLGRRLC	Homo sapiens
1706	74514	5-HT5A Receptor	NP_076917.1	2120	LLFGWGETYSEGSEEC	Homo sapiens
1707	74514	5-HT5A Receptor	NP_076917.1	2121	FRVGSRKTNVSPISE	Homo sapiens
1708	74514	5-HT5A Receptor	NP_076917.1	2122	RHATVTFQPEGDTWREQK	Homo sapiens

1709	81765	Thromboxane A2 Receptor	P21731	1277	GITRPFSPAVASQRR	Homo sapiens
1710	81765	Thromboxane A2 Receptor	P21731	1278	CHVYHGQEAQQRPDSEVE	Homo sapiens
1711	81765	Thromboxane A2 Receptor	P21731	1279	RNPPAMSPAGQLSRITE	Homo sapiens
1712	81765	Thromboxane A2 Receptor	P21731	1280	RRLQPRLSRPRRVSLC	Homo sapiens
1713	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	155	RYLSVVSPLSLRVPTLRC	Homo sapiens
1714	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	156	SSILDTFHFKVLSSGCDYSE	Homo sapiens
1715	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	157	VEILTLFRSRKRHRRTVK	Homo sapiens
1716	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	158	QTLFRTQIIRSCEAKQQL	Homo sapiens
1717	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	159	RLQAPSPASIPSPGAFAYE	Homo sapiens
1718	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1589	RIEYYSIYNSSPSQEE	Homo sapiens
1719	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1590	IMIAQTLRKNAQVRKC	Homo sapiens
1720	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1591	RNQNVNKLQHVQTRGYTKS	Homo sapiens
1721	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1592	SRLQLVSAINLSTAKD	Homo sapiens
1722	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1593	CKQKTRLRAMGKGNLEVR	Homo sapiens
1723	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1594	NSAYMLSPKPKKKFVDQAC	Homo sapiens
1724	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1218	CKVQDSNRRKMLPTQF	Homo sapiens
1725	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1219	HAVSLTKLVGRKPLS	Homo sapiens
1726	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1220	NVNVFELSAPRRNED	Homo sapiens
1727	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1221	TKQRNPMDYPVEDAFC	Homo sapiens
1728	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1222	CKPQLVKKSYGVENRA	Homo sapiens
1729	152198	Tachykinin Receptor 2	AAB05897.1	1286	RRAVPGHQAHAHANLRH	Homo sapiens
1730	152198	Tachykinin Receptor 2	AAB05897.1	1287	KEDKLELTPTTSLSTRVNRC	Homo sapiens
1731	152198	Tachykinin Receptor 2	AAB05897.1	1288	KETLFMAGDTAPSEATSGEA	Homo sapiens

1732	152198	Tachykinin Receptor 2	AAB05897.1	1290	CVVAWPEDSGGKTLL	Homo sapiens
1733	152201	Thyrotropin Receptor	P16473	1445	RGRKSVNALNSPLHGE	Homo sapiens
1734	152201	Thyrotropin Receptor	P16473	1446	KFQDTHNNAHYVFFEEQED	Homo sapiens
1735	152201	Thyrotropin Receptor	P16473	1449	CHVKIYITVRNPQVNPQDK	Homo sapiens
1736	152201	Thyrotropin Receptor	P16473	1450	CKRQAQAYRGQRVPKKNSTD	Homo sapiens
1737	152245	C-C Chemokine Receptor 2	NP_000639.1	1896	SRSRFRINTESGEEVIT	Homo sapiens
1738	152245	C-C Chemokine Receptor 2	NP_000639.1	1898	CQKEDSVVCGPYFPRGWNIN	Homo sapiens
1739	152245	C-C Chemokine Receptor 2	NP_000639.1	1899	SGEEVTIFFDYDYGAPCHKF	Homo sapiens
1740	152299	Interleukin-8 Receptor A	P25024	806	DFDDLNTGMPADQEDYSPC	Homo sapiens
1741	152299	Interleukin-8 Receptor A	P25024	807	CWGLSMNLSLPFLFRQAYH	Homo sapiens
1742	152299	Interleukin-8 Receptor A	P25024	808	RHRVTSYSSSVNVSSN	Homo sapiens
1743	152299	Interleukin-8 Receptor A	P25024	1490	CMLTETLNKYVVIAYALV	Homo sapiens
1744	158822	Mas Proto-Oncogene	NP_002368.1	1527	EEPINISTGRNASVGNHRQ	Homo sapiens
1745	158822	Mas Proto-Oncogene	NP_002368.1	1528	RRNPFTVYTHLSIAD	Homo sapiens
1746	158822	Mas Proto-Oncogene	NP_002368.1	1529	YVMCIDREEESHNRNDCRAV	Homo sapiens
1747	158822	Mas Proto-Oncogene	NP_002368.1	1530	SSTILVVKIRKNTWASHSK	Homo sapiens
1748	158822	Mas Proto-Oncogene	NP_002368.1	1531	TRAFKDEMQPRRQKDNK	Homo sapiens
1749	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1578	ERYLGVAFPVQYKLSRRPL	Homo sapiens
1750	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1586	QYLNTEQVRSGNEITC	Homo sapiens
1751	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1588	EGTNEDRGVGGGEGMPSSD	Homo sapiens
1752	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1616	RGLQVLNRNGSSLLGRRGKD	Homo sapiens
1753	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1292	KQCLEEAQLENETIGCS	Homo sapiens
1754	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1296	KDLALFDSGESDQCSE	Homo sapiens
1755	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1297	LQKLRPDPDIRKSDSP	Homo sapiens
1756	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1298	NPKYRHPGGSGNGATC	Homo sapiens
1757	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1299	KVFSNFYSKAGNISKNC	Homo sapiens
1758	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1301	CGYSDPEDESKIFYI	Homo sapiens
1759	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1305	KRKWRSRCPTPSASRD	Homo sapiens

1760	160040	Polypeptide Receptor 2	P41587	1306	CGSSFSRNGSEGAHQFHR	Homo sapiens
		Vasoactive Intestinal				
1761	160055	Polypeptide Receptor 2	AAC26081.1	132	REPPWPALPPCDERRCS	Homo sapiens
1762	160055	Motilin Receptor (GPR38)	AAC26081.1	134	SPSPGPETAEEAAALFSREC	Homo sapiens
1763	160055	Motilin Receptor (GPR38)	AAC26081.1	135	SSRRPLRGPAASGRERGRHQ	Homo sapiens
1764	160055	Motilin Receptor (GPR38)	AAC26081.1	136	RKSRPRGFHRSRD TAG	Homo sapiens
1765	160059	G Protein-coupled Receptor	NP_005294.1	1595	NPLVTGYLGRGPGLKTVG	Homo sapiens
		GPR40				
1766	160059	G Protein-coupled Receptor	NP_005294.1	1596	GRYLGA AFPLGYQAFRRPC	Homo sapiens
		GPR40				
1767	160059	G Protein-coupled Receptor	NP_005294.1	1597	CLEAWDPASAGPARFS	Homo sapiens
		GPR40				
1768	160059	G Protein-coupled Receptor	NP_005294.1	1598	CLRALARSGLTHRRKLR	Homo sapiens
		GPR40				
1769	160059	G Protein-coupled Receptor	NP_005294.1	1599	NASNVASFLYPNLGGSWRK	Homo sapiens
		GPR40				
1770	160059	G Protein-coupled Receptor	NP_005294.1	1617	TVSLPLKAVEALASGA	Homo sapiens
		GPR40				
1771	160059	G Protein-coupled Receptor	NP_005294.1	1618	DHSNTSLGINTPVNGSPVC	Homo sapiens
		GPR40				
1772	160189	G Protein-Coupled	BAB55446	1926	CSEAFPSRALERAFALY	Homo sapiens
		Receptor GPR54				
1773	160189	G Protein-Coupled	BAB55446	1927	ERAGAVRAKVSRLVAAVV	Homo sapiens
		Receptor GPR54				
1774	160189	G Protein-Coupled	BAB55446	1928	RRPGSPDPAAPHAEHLRLGS	Homo sapiens
		Receptor GPR54				
1775	160189	G Protein-Coupled	BAB55446	1929	GAPANASGCPGCCGANASD	Homo sapiens
		Receptor GPR54				
1776	160202	Adrenomedullin Receptor	O15218	390	DLFNHTLSECHVELSQST	Homo sapiens
		(ADMIR)				
1777	160202	Adrenomedullin Receptor	O15218	391	NVLTACRLRQPGQPKSRHRC	Homo sapiens
		(ADMIR)				
1778	160202	Adrenomedullin Receptor	O15218	392	KDQTKAGTCASSSSCSTQ	Homo sapiens
		(ADMIR)				
1779	160202	Adrenomedullin Receptor	O15218	484	KGDSQPAAAAAPHPEPSLS	Homo sapiens
		(ADMIR)				
1780	160204	G Protein-Coupled	LR85	1977	CRARRRQRSTKLNHVILA	Homo sapiens
		Receptor RTA				

1781	160204	G Protein-Coupled Receptor RTA	LR85	1983	CPGLSEAPELYRRGFLIEQ	Homo sapiens
1782	160204	G Protein-Coupled Receptor RTA	LR85	1985	RDGAELGEAGGSTPNTVT	Homo sapiens
1783	160204	G Protein-Coupled Receptor RTA	LR85	2173	LAGRDKSQRLWEPLRV	Homo sapiens
1784	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1678	RTTRKWNCGCTHCYLAFNSD	Homo sapiens
1785	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1679	RAKLIREGWVHANRPKR	Homo sapiens
1786	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1680	RRVMLKEIYHPRMILLI	Homo sapiens
1787	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1682	SALARAFGEFEELSSC	Homo sapiens
1788	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1683	RSCSRKMINSSGCLSEE	Homo sapiens
1789	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	151	PGPDRDATCNSRQAALAVSK	Homo sapiens
1790	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	152	SSHAAVSLRLQHRGRRRPR	Homo sapiens
1791	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	153	DDSELGGAGSSRRRTSSTA	Homo sapiens
1792	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	154	DGPPEPGAEGHLELEPGPRR	Homo sapiens
1793	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2220	CPILEQMSRLQSHSNTSIRY	Homo sapiens
1794	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2221	RYIDHAAVLLHGLASLLGLV	Homo sapiens
1795	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2222	CRMRTQTVTTWVHLALSDL	Homo sapiens
1796	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2223	SASLPFFTYFLAVGHSWE	Homo sapiens
1797	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2224	CLVLWALAVLNTVPYFVFRD	Homo sapiens
1798	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2225	CYNNVLLNPGPDRDAT	Homo sapiens
1799	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2226	CNSRQAALAVSKFLAFLVP	Homo sapiens
1800	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2228	RGLPFVTSIAFFNSVANPVL	Homo sapiens

1801	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2229	CSRPEEPRGPARIILGWLLGS	Homo sapiens
1802	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2230	CAASPQTGPLNIRALSS	Homo sapiens
1803	160212	Receptor GPR44 (CRTH2) G Protein-Coupled	Q9Y2T5	444	KEINDRRARFPSHEVDSSRE	Homo sapiens
1804	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	445	CVKDQEAQEPKPRKRANS	Homo sapiens
1805	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	446	RWTEWRILNMSSGIVNASER	Homo sapiens
1806	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	622	HSCPLGFGHYSVVDVCIFE	Homo sapiens
1807	160217	Receptor GPR52 G Protein-Coupled	AAD22410.1	161	GKVEKYMCFHNMSSDDTWSAK	Homo sapiens
1808	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	162	RSIHILLGRRDHTQDWVQQK	Homo sapiens
1809	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	163	CRAKQSISFFLQLSM	Homo sapiens
1810	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	164	KEFRMNIRAHRRPSRVQLVLQ	Homo sapiens
1811	160219	Receptor GPR55 G Protein-Coupled	AAC52028.1	2	AQRPTDVGQAEATRKAAR	Homo sapiens
1812	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	3	KEFQEASALAVAPRAKAHK	Homo sapiens
1813	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	123	GGFCFRSTRHNFNSMR	Homo sapiens
1814	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	125	ETIRRALYITSKLSDANC	Homo sapiens
1815	160221	Receptor GPR35 G Protein-Coupled	LR6	335	FPPVLDGGGDDDEDAPCALEQ	Homo sapiens
1816	160221	Receptor GPR27 G Protein-Coupled	LR6	338	RGARRLLVLEEFKTEKRLC	Homo sapiens
1817	160221	Receptor GPR27 G Protein-Coupled	LR6	496	NASEPGSGGGGEEAALGLK	Homo sapiens
1818	160221	Receptor GPR27 G Protein-Coupled	O54897	515	GLRALACLPAVMLAARRA	Mus musculus
1819	160221	Receptor GPR27 G Protein-Coupled	LR6	1291	RPAGPGRGARLLVLE	Homo sapiens

1820	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1606	CQRPPKQEDGQPSV	Homo sapiens
1821	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1607	CNMIGDVTEQYFALRRK	Homo sapiens
1822	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1610	EGRADQSSAEAAALAVP	Homo sapiens
1823	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1611	QNFVGRRRYGAESQNPTVK	Homo sapiens
1824	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1600	RIFRSIKQSMGLSAAQKAK	Homo sapiens
1825	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1601	CDRFVAVVVALESRRR	Homo sapiens
1826	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1604	ATDHSRQEVSRHKGWKE	Homo sapiens
1827	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1605	KTDVTRLTHSRDTEELQS	Homo sapiens
1828	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	403	ETQEQQSRSKRGTEDEEAK	Homo sapiens
1829	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	404	SPNPDKDGGIPDSGGQLR	Homo sapiens
1830	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	405	CQLVTWRVRGPPGRKSE	Homo sapiens
1831	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	406	AANGSDNKLKTEVSS	Homo sapiens
1832	160225	Sphingolipid Receptor Edg6	CAA04118.1	70	PRDSFRGSRSLSRMRE	Homo sapiens
1833	160225	Sphingolipid Receptor Edg6	CAA04118.1	71	ERFATMVRPVAESGATKTSR	Homo sapiens
1834	160225	Sphingolipid Receptor Edg6	CAA04118.1	72	RLVQASGQKAPRPAAR	Homo sapiens
1835	160225	Sphingolipid Receptor Edg6	CAA04118.1	73	RAVEAHSGASTDSSLRPRD	Homo sapiens
1836	160225	Sphingolipid Receptor Edg6	CAA04118.1	1914	IFRLVQASGQKAPRPAAR	Homo sapiens
1837	160225	Sphingolipid Receptor Edg6	CAA04118.1	1915	DSSLRPRDSFRGSRSLSRM	Homo sapiens
1838	160225	Sphingolipid Receptor Edg6	CAA04118.1	1916	RSLSFRMIREPLSSISVR	Homo sapiens
1839	160225	Sphingolipid Receptor Edg6	CAA04118.1	1917	GPEDGGGLGALRGLSVAASC	Homo sapiens
1840	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1625	ANIGSLCVSFLQPKKE	Homo sapiens
1841	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1626	ETIFNAVMLWEDETVE	Homo sapiens
1842	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1627	CNRKVYQAVRHNKATENKE	Homo sapiens

1843	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1628	CILEHAVNFEDHSNGKR	Homo sapiens
1844	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1629	CNTSQRRKRILSVSTKD	Homo sapiens
1845	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	2303	CDAEKSNTLCYDKYPLEK	Homo sapiens
1846	160300	Encephalopsin	NP_055137.1	2131	CTVDWKSNDANDSSFV	Homo sapiens
1847	160300	Encephalopsin	NP_055137.1	2132	CVEDLQTQVIKILKYK	Homo sapiens
1848	160300	Encephalopsin	NP_055137.1	2133	CGRPAKDLPAAAGSEMQRIP	Homo sapiens
1849	160300	Encephalopsin	NP_055137.1	2134	TSDESLVDDSDKTIG	Homo sapiens
1850	160312	Sphingolipid Receptor Edg5	O95136	1018	ERHVAIAKVLYGSDKSC	Homo sapiens
1851	160312	Sphingolipid Receptor Edg5	O95136	1019	RSRDLRREVLRLPLQC	Homo sapiens
1852	160312	Sphingolipid Receptor Edg5	O95136	1020	QEHYNYTKETLETQET	Homo sapiens
1853	160312	Sphingolipid Receptor Edg5	O95136	1021	GRRRVGTPGHLLPLR	Homo sapiens
1854	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1922	MMRKKAKFSLRENVEETKG	Homo sapiens
1855	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1923	MMIEYSNFEKEYDDVTIKM	Homo sapiens
1856	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1924	CEQTEEEKKLRHLALFRSE	Homo sapiens
1857	160314	G Protein-Coupled Receptor GPR103	ENSMPRT221753	1925	KKRVGDGSLVLRTHGKEMSK	Homo sapiens
1858	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	463	DRARRERFIMNEKWDTNSE	Homo sapiens
1859	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	464	RKNQEQWHVVSRKKQKLIK	Homo sapiens
1860	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	465	RKSAEKPQQELVMEELKE	Homo sapiens
1861	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	500	RQSAGDRRLGLSRQTAK	Homo sapiens
1862	160324	G Protein-Coupled Receptor	NP_076403.1	1619	DRFLKIIRPLRNIFLKKP	Homo sapiens
1863	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1620	MILSNKEATPSSVKKC	Homo sapiens
1864	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1622	VYDSYRKSCKDRKNN	Homo sapiens
1865	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1623	ARVPYTHSQTNINKTDC	Homo sapiens

1866	160324	G Protein-Coupled Receptor	NP_076403.1	1624	CMQGRKTTASSQENHSSQTD	Homo sapiens
1867	160329	GPR86/GPR94/P2Y13 Proteinase-Activated Receptor 4	O76067	1308	CANDSDTLELPDSSRA	Homo sapiens
1868	160329	Proteinase-Activated Receptor 4	O76067	1309	PLRARALRGRRALGLC	Homo sapiens
1869	160329	Proteinase-Activated Receptor 4	O76067	1310	LQRQTFRLARSDRVLC	Homo sapiens
1870	160329	Proteinase-Activated Receptor 4	O76067	1311	RDKVRAGLFQIRSPGDT	Homo sapiens
1871	160330	G Protein-Coupled- Receptor TM7XN1/GPR56	Q9Y653	1213	CELRDLQLLSQFLKHPQK	Homo sapiens
1872	160330	G Protein-Coupled- Receptor TM7XN1/GPR56	Q9Y653	1214	TSVRFMGDMVSEEDR	Homo sapiens
1873	160330	G Protein-Coupled- Receptor TM7XN1/GPR56	Q9Y653	1215	RQEEEQSEIMEYSVLLP	Homo sapiens
1874	160330	G Protein-Coupled- Receptor TM7XN1/GPR56	Q9Y653	1216	RTLFQRTKGRSGAEKR	Homo sapiens
1875	160387	Glucagon-Like Peptide 2 Receptor	O95838	1312	GSLLLEETTRKWAQYKQAC	Homo sapiens
1876	160387	Glucagon-Like Peptide 2 Receptor	O95838	1313	QTENATDIWQDDSEC	Homo sapiens
1877	160387	Glucagon-Like Peptide 2 Receptor	O95838	1315	CPKKLSEGDGAEKLRK	Homo sapiens
1878	160387	Glucagon-Like Peptide 2 Receptor	O95838	1316	QQDHARWPRGSSLSEC	Homo sapiens
1879	160388	Latrophilin-1	O94910	1121	EPTITHESEHQSGAWC	Homo sapiens
1880	160388	Latrophilin-1	O94910	1126	CEPREVRRVQWPATQQ	Homo sapiens
1881	160388	Latrophilin-1	O94910	1129	RSQDFPPGDGGPEPPR	Homo sapiens
1882	160388	Latrophilin-1	O94910	1131	CTAEDGATSRPLSSPPGRDS	Homo sapiens
1883	160388	Latrophilin-1	O94910	1706	RESAGKNYNKMHKRETC	Homo sapiens
1884	160388	Latrophilin-1	O94910	1707	RDSPSPDSSPEGPSEALP	Homo sapiens
1885	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1938	QVGPCRSLSRGRGSSGAC	Homo sapiens
1886	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1939	CRDAGTELIGHLVPHHDGLR	Homo sapiens

1887	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1940	CKLAQAPGLRAGERSPEESL	Homo sapiens
1888	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1942	RVSDTPEGVNSLDPSHGES	Homo sapiens
1889	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1943	RSGKSQPSYIPFLREES	Homo sapiens
1890	160397	Latrophilin-2	O95490	1132	CEALDSKGIKWPQTQR	Homo sapiens
1891	160397	Latrophilin-2	O95490	1133	DILDAGLQELKPSEKD	Homo sapiens
1892	160397	Latrophilin-2	O95490	1136	RTHSLLYQPQKKVKSE	Homo sapiens
1893	160397	Latrophilin-2	O95490	1137	RDSPYPESPDMEEEL	Homo sapiens
1894	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1630	CQEQKMLRTLDSYNNIRD	Homo sapiens
1895	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1631	CDSYANLNTEDNSLQD	Homo sapiens
1896	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1632	KGTAADAANVTSTLENEE	Homo sapiens
1897	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1633	ERSLSAKDIMKNGKSNHLK	Homo sapiens
1898	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1634	CNLEKEDLSENSQSSMIK	Homo sapiens
1899	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1635	KRRVTIKSGSVSVSIS	Homo sapiens
1900	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1636	CGTQSAHSDYADEEDS	Homo sapiens
1901	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1637	DEEDSFVSDSSDQVQAC	Homo sapiens
1902	160435	LS160435 Receptor	LR80	1918	ATILKLLRTEEAHGREGRR	Homo sapiens
1903	160435	LS160435 Receptor	LR80	1919	CRRVPRDITLDRRESLFSAR	Homo sapiens
1904	160435	LS160435 Receptor	LR80	1920	PLSSKRWRRRRYAVAAC	Homo sapiens
1905	160435	LS160435 Receptor	LR80	1921	CRRMGPRSPSVIFMINL	Homo sapiens
1906	160889	Platelet Activating Receptor Homolog (H963)	O14626	1223	MMIPIKDIKEKSNVGC	Homo sapiens
1907	160889	Platelet Activating Receptor Homolog (H963)	O14626	1224	CLVIRQLYRNKDNENYP	Homo sapiens
1908	160889	Platelet Activating Receptor	O14626	1225	CSTRISLFKAKEATLL	Homo sapiens

1909	160889	Homolog (H963) Platelet Activating Receptor	O14626	1226	ETFA SPKETKAQKEKLRC	Homo sapiens
1910	161024	Homolog (H963) Protein A	NP_062832.1	1690	ESRAVGLPLGLSAGRRC	Homo sapiens
1911	161024	Protein A	NP_062832.1	1691	EDARGKRSSLDGSESAK	Homo sapiens
1912	161024	Protein A	NP_062832.1	1692	RTVWEQCVAIMSEEDGD	Homo sapiens
1913	161024	Protein A	NP_062832.1	1693	CKVRFDANGATGPGSRD	Homo sapiens
1914	161024	Protein A	NP_062832.1	1694	RRLSHDENIFSTPRE	Homo sapiens
1915	161024	Protein A	NP_062832.1	1695	GGPPEYLGQRHRLDEED	Homo sapiens
1916	161024	Protein A	NP_062832.1	1696	REEITFIDETPLSP	Homo sapiens
1917	161024	Protein A	NP_062832.1	1697	RRPRPLGLSPRRLSGSPE	Homo sapiens
1918	161214	Galanin Receptor GalR3	AAC35944.1	202	RYGALELCVPAWEDARR	Homo sapiens
1919	161214	Galanin Receptor GalR3	AAC35944.1	203	GAAAAEARRRATGRAGR	Homo sapiens
1920	161214	Galanin Receptor GalR3	AAC35944.1	204	ASRHFRRFRRLWPC	Homo sapiens
1921	161214	Galanin Receptor GalR3	AAC35944.1	205	RARRALRRVRPASSGPP	Homo sapiens
1922	161221	Urotensin-II Receptor (GPR14)	LR15	371	ERYAAVLRPLDTVQRPKG	Homo sapiens
1923	161221	Urotensin-II Receptor (GPR14)	LR15	372	RAYRRSQRASFKRARRPGAR	Homo sapiens
1924	161221	Urotensin-II Receptor (GPR14)	LR15	373	RNYRDHLRGRVRGPGSG	Homo sapiens
1925	161221	Urotensin-II Receptor (GPR14)	LR15	374	RARFQRCSGRSLSCSPQPTD	Homo sapiens
1926	161249	G Protein-Coupled Receptor GPR66	LR20	394	ARGHFDPELNLITDEALRLK	Homo sapiens
1927	161249	G Protein-Coupled Receptor GPR66	LR20	395	IGLRRLRRERLLLMQEA KGRG	Homo sapiens
1928	161249	G Protein-Coupled Receptor GPR66	LR20	396	RGSAAARSRYTCRLQQH	Homo sapiens
1929	161249	G Protein-Coupled Receptor GPR66	LR20	397	ALCLGACCHRLRPRHSS	Homo sapiens
1930	161251	Purinergic Receptor P2Y10	O00398	859	CFFLLKPFRRARDWKRRYD	Homo sapiens
1931	161251	Purinergic Receptor P2Y10	O00398	860	PFPIRLSTDNLNNKSC	Homo sapiens
1932	161251	Purinergic Receptor P2Y10	O00398	862	QLSRHGSSVTRSLMSKE	Homo sapiens
1933	161251	Purinergic Receptor P2Y10	O00398	863	LRQPPMAFGQISERQK	Homo sapiens
1934	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1672	YYDDLDDVDYEEAPC	Equine herpesvirus 2

1935	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1674	CDPYPEMSTNVWRRRAHVAK	Equine herpesvirus 2
1936	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1675	CYVVIIRLLRRPSKK	Equine herpesvirus 2
1937	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1676	CKYIPFLSGDGEKKEGPT	Equine herpesvirus 2
1938	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1820	RNLTSAPTASPSPAPS	Homo sapiens
1939	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1821	PSWTPSPRP GPAHPFLQPP	Homo sapiens
1940	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1822	RSSHQKRGTRDVGSNVC	Homo sapiens
1941	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1823	KSTSTASFVSSSHMSVEE	Homo sapiens
1942	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1317	TSSPFLMAKPQKDEKNNTKC	Homo sapiens
1943	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1318	KKSMKKNLSSHKKAIG	Homo sapiens
1944	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1319	QRTIHLHFLHNETKPC	Homo sapiens
1945	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1320	RKHLSSTVYVPRKKASLPE	Homo sapiens
1946	177191	Histamine H3 Receptor	Q9Y5N1	474	RAVSYRAQQGDTRRAVRK	Homo sapiens
1947	177191	Histamine H3 Receptor	Q9Y5N1	475	QRRTRLRDGAREAAGPE	Homo sapiens
1948	177191	Histamine H3 Receptor	Q9Y5N1	476	QSFTQRFRLSRDRKVA	Homo sapiens
1949	177191	Histamine H3 Receptor	Q9Y5N1	477	RYGVGEAAVGAEGEATLG	Homo sapiens
1950	177191	Histamine H3 Receptor	Q9Y5N1	1477	SSRGTERPSLKRGSKPSAS	Homo sapiens
1951	177191	Histamine H3 Receptor	Q9Y5N1	1479	KPSASSASLEKRMKMVS	Homo sapiens
1952	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2052	RTLFSFYFRDTPRANR	Homo sapiens
1953	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2053	RPEMSRGLLAVRGAFV	Homo sapiens
1954	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2059	CAVLSHRRRAQPWALLV	Homo sapiens
1955	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2733	RVLVSDSLFVICALSL	Homo sapiens

1956	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1014	KRKTNVLSPHTSGSIS	Homo sapiens
1957	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1015	CFSQENPERRPSRIPST	Homo sapiens
1958	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1016	SYKDEDMYGTMKKMIC	Homo sapiens
1959	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1017	VERHMSIMRMIRVHSN	Homo sapiens
1960	189873	G Protein-Coupled Receptor GPR78	LR37	443	CQRMDVTVMKALALLAD	Homo sapiens
1961	189873	G Protein-Coupled Receptor GPR78	LR37	528	CSURLPPEPERPFAAFTAT	Homo sapiens
1962	189873	G Protein-Coupled Receptor GPR78	LR37	533	RGPLPPGICAHSAQGAIRR	Homo sapiens
1963	189873	G Protein-Coupled Receptor GPR78	LR37	534	CRQAQARDLGAPWAVGLRSL	Homo sapiens
1964	189874	Neuromedin U Receptor 2	LR28	420	QQKLEDPFQKHLNSTEE	Homo sapiens
1965	189874	Neuromedin U Receptor 2	LR28	422	KDKSLEADEGNANIQRPC	Homo sapiens
1966	189874	Neuromedin U Receptor 2	LR28	423	SGHDPQLPPAQRNIFLTC	Homo sapiens
1967	189874	Neuromedin U Receptor 2	LR28	487	ILHPFRAKLQSTRIRRALR	Homo sapiens
1968	189884	G Protein-Coupled Receptor Ls189884	LR27	415	CKKRGTKTNLRNQIRSK	Homo sapiens
1969	189884	G Protein-Coupled Receptor Ls189884	LR27	418	EKPSSPSSGKGKTEKAE	Homo sapiens
1970	189884	G Protein-Coupled Receptor Ls189884	LR27	419	PSVQDNDPIPWEHEDQETGE	Homo sapiens
1971	189884	G Protein-Coupled Receptor Ls189884	LR27	486	KKPPTVSESQETPAGNSEG	Homo sapiens
1972	189884	G Protein-Coupled Receptor Ls189884	LR27	1832	LVMSEEFREGILKGVWK	Homo sapiens
1973	189884	G Protein-Coupled Receptor Ls189884	LR27	1833	GLPDKVPSPEPASISPEK	Homo sapiens
1974	189884	G Protein-Coupled Receptor Ls189884	LR27	1834	PDVEQFWHERDTPVPSVQ	Homo sapiens
1975	189884	G Protein-Coupled Receptor Ls189884	LR27	1835	RHHEGVEMCLVDVPAVAEE	Homo sapiens
1976	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1685	RVPQTGPGSTASGVPE	Homo sapiens
1977	189895	G Protein-Coupled	AAK12637.1	1686	ETPRQRSESLSRSTMVTS	Homo sapiens

1978	189895	Receptor GPR61 G Protein-Coupled Receptor GPR61	AAK12637.1	1687	SSGAPQITPHRTFGGK	Homo sapiens
1979	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1688	KPAPEEELRLPSREGSIEE	Homo sapiens
1980	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1689	CPSESWVSRPLSPKQE	Homo sapiens
1981	189900	Sphingolipid Receptor Edg8	LR1	312	TGKLRGARYQPGAGLRAD	Homo sapiens
1982	189900	Sphingolipid Receptor Edg8	LR1	316	ALERSLTMARRGAPVSS	Homo sapiens
1983	189900	Sphingolipid Receptor Edg8	LR1	317	DGSFSGSERSSPQRDGLD	Homo sapiens
1984	189900	Sphingolipid Receptor Edg8	LR1	318	CGRDPGSGQSASAAEASG	Homo sapiens
1985	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2266	ASRKAEAGIKLVQGEVS	Homo sapiens
1986	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2270	SCLSYRVGTPKSASLR	Homo sapiens
1987	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2271	RVDYLLHETWRFGAAAC	Homo sapiens
1988	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2272	HQSRALLGLTRGRQGPVSD	Homo sapiens
1989	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2273	CIHTRPWTNSITVFLVSL	Homo sapiens
1990	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2274	RGRQGPVSDSSVQPSR	Homo sapiens
1991	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2108	IDRYLIKYPFHEHLLQKKE	Homo sapiens
1992	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2109	TDNGTTCNDFASSGDPN	Homo sapiens
1993	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2110	FLKQRNRQVATALPLE	Homo sapiens
1994	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2111	RNVRIASRLGSKWKQYQC	Homo sapiens
1995	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2112	GDHFRDMLMNLRLHNFKS	Homo sapiens

1996	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1721	CVAFLAVGNPDQLIPSR	Homo sapiens
1997	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1722	NTLRHNAIRHSYPEGIC	Homo sapiens
1998	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1723	QASKLGLMSLQRPFGMSID	Homo sapiens
1999	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1724	DMMPKSFKFLPQLPGHTKRR	Homo sapiens
2000	189945	G Protein-Coupled Receptor Dj287g14.2	Q9Y3K0	1715	QNLKDPVQIKIKHTRTQE	Homo sapiens
2001	189945	G Protein-Coupled Receptor Dj287g14.2	Q9Y3K0	1716	KNKSGGWNTSGCVAHRD	Homo sapiens
2002	189945	G Protein-Coupled Receptor Dj287g14.2	Q9Y3K0	1717	RNNNEVYGKESYGKEKGDE	Homo sapiens
2003	189945	G Protein-Coupled Receptor Dj287g14.2	Q9Y3K0	1718	CGRNGKRSNRTLREEVLR	Homo sapiens
2004	189945	G Protein-Coupled Receptor Dj287g14.2	Q9Y3K0	1719	TSKSKSSSTTYFKRNSHTD	Homo sapiens
2005	189945	G Protein-Coupled Receptor Dj287g14.2	Q9Y3K0	1720	DKSLKLAHADGDQTS	Homo sapiens
2006	190026	G Protein-Coupled Receptor JEG18	LR24	407	LFPLRTSDDTPGNRTKC	Homo sapiens
2007	190026	G Protein-Coupled Receptor JEG18	LR24	408	QDKYPMAQDLGEKQKALK	Homo sapiens
2008	190026	G Protein-Coupled Receptor JEG18	LR24	409	SFPLDFLVKSNEIKSC	Homo sapiens
2009	190026	G Protein-Coupled Receptor JEG18	LR24	410	RRRLSRQDLHDSIQLHAK	Homo sapiens
2010	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1725	KGEAKLDSRAKDVLTIQE	Homo sapiens
2011	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1727	DHKEQPIVTENAERQLVVKD	Homo sapiens
2012	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1728	EDFEEQTLTFLDGERERK	Homo sapiens
2013	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1729	EGKEGDYIRIPERLLDVQD	Homo sapiens

2014	190168	Receptor VLGR1	AAF27278.1	324	SEAYADGIEGYDILVACSSS	Homo sapiens
2015	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	326	NNIRENNQNNQVKKDKKA	Homo sapiens
2016	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	379	DPFLNFSTPVVLFDAIT	Homo sapiens
2017	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	380	GKIFSCFHNTILCMQKE	Homo sapiens
2018	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	327	CPKFVNKILSSHQPLFS	Homo sapiens
2019	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	328	KQHARVISHVPENTKGAVKK	Homo sapiens
2020	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	329	ENTKGAVKKHLSKKDRKA	Homo sapiens
2021	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	330	CKFHTSFDMMMLRLTSI	Homo sapiens
2022	190188	G Protein-Coupled Receptor LGR6	LR36	439	ENHDQDLDLQLEMEDSKP	Homo sapiens
2023	190188	G Protein-Coupled Receptor LGR6	LR36	440	NPHFRDDLRLRPRAGDS	Homo sapiens
2024	190188	G Protein-Coupled Receptor LGR6	LR36	442	EDLHLDDESSKRPLGLLAR	Homo sapiens
2025	190188	G Protein-Coupled Receptor LGR6	LR36	621	DSGPLAYAAAGELEKSSC	Homo sapiens
2026	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1836	CAARRQHALLYNVKRHSLE	Homo sapiens
2027	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1837	DGSLKAKEGSTGTSESV	Homo sapiens
2028	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1838	CSIDLGEDGMEFGEDDIN	Homo sapiens
2029	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1839	SEDDVEAVNIPESLPPS	Homo sapiens
2030	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1840	MHKTIKKEIQDMLKKFFC	Homo sapiens
2031	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1841	KEDSHPDLPGTGGTEG	Homo sapiens
2032	190418	Inflammation-Related G Protein-Coupled Receptor	LR8	343	RQVKRAAQAALDQYKLRQAS	Homo sapiens

2033	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	344	RTDEAMPGRFQELDSRLASG	Homo sapiens
2034	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	345	DSSEVGDQINSKRAKQMAEK	Homo sapiens
2035	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	346	KAQPIKGARRAPDSSEFGK	Homo sapiens
2036	190419	EX33 G Protein-Coupled Receptor Ls190419	CAC33085.1	2716	RRKSNFRLRGYSTGKT	Homo sapiens
2037	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2717	RRQKSSVNYLLALAAAD	Homo sapiens
2038	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2719	CFLTIPYVWWPNIWT	Homo sapiens
2039	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2725	CSIFFILNSIIVYKLR	Homo sapiens
2040	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2754	GRUIYSLLSFISIPH	Homo sapiens
2041	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2755	FFLFLWIHVVDRE	Homo sapiens
2042	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2756	MDPTISTLDTLTP	Homo sapiens
2043	190427	Cysteinyln Leukotriene CYSLT2 Receptor	LR49	471	ASSIMLLDSGSEQNGSVTSC	Homo sapiens
2044	190427	Cysteinyln Leukotriene CYSLT2 Receptor	LR49	472	RVLLKVEVPESGLRVSHRK	Homo sapiens
2045	190427	Cysteinyln Leukotriene CYSLT2 Receptor	LR49	473	KDRLKSALRKGHQPQAKATKC	Homo sapiens
2046	190427	Cysteinyln Leukotriene CYSLT2 Receptor	LR49	512	MEPNGTFSNNNSRNC	Homo sapiens
2047	190427	Cysteinyln Leukotriene CYSLT2 Receptor	NP_065110.1	2253	CTIENFKREFFPVYLIF	Homo sapiens
2048	190427	Cysteinyln Leukotriene CYSLT2 Receptor	NP_065110.1	2254	GVLGNGLSIYVFLQPYK	Homo sapiens
2049	190427	Cysteinyln Leukotriene CYSLT2 Receptor	NP_065110.1	2255	ADYYLRGSNWIFGDLAC	Homo sapiens
2050	190427	Cysteinyln Leukotriene CYSLT2 Receptor	NP_065110.1	2256	FRLLHVTIRSASWILC	Homo sapiens

2051	190427	Receptor Cysteinyi Leukotriene C ₅ SLT ₂	NP_065110.1	2257	CGIIWILIMASSIMLLDSGS	Homo sapiens
2052	190427	Receptor Cysteinyi Leukotriene C ₅ SLT ₂	NP_065110.1	2258	CLELNLYKIAKLQTMNYIAL	Homo sapiens
2053	190427	Receptor Cysteinyi Leukotriene C ₅ SLT ₂	NP_065110.1	2260	VSHRKALTTIITLIIFLC	Homo sapiens
2054	190427	Receptor Cysteinyi Leukotriene C ₅ SLT ₂	NP_065110.1	2261	CFLPYHTLRTVHLTWKVGGL	Homo sapiens
2055	190427	Receptor Cysteinyi Leukotriene C ₅ SLT ₂	NP_065110.1	2262	CKDRLHKALVITLALA	Homo sapiens
2056	190427	Receptor Cysteinyi Leukotriene C ₅ SLT ₂	NP_065110.1	2263	YFAGENFKDRLKSALRKG	Homo sapiens
2057	190427	Receptor Cysteinyi Leukotriene C ₅ SLT ₂	NP_065110.1	2264	HPQKAKTKCVFPVSWLRLKE	Homo sapiens
2058	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	LR31	429	DSVSYEYGDYSDLSDRPVDC	Homo sapiens
2059	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	LR31	430	RESQGGQDESVDKKSTSHD	Homo sapiens
2060	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	LR31	431	PSAIYRRLHQEHFARLQC	Homo sapiens
2061	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	LR31	432	CHWALRESQGGQDESVDSSKKS	Homo sapiens
2062	190437	Receptor G Protein-Coupled Receptor C ₅ L ₂	NP_060955.1	2818	MGNDVSVSYEYGDYSDLSDRPVDC	Homo sapiens
2063	190438	Receptor G Protein-Coupled Receptor Ls190438	ENSP00000080322	2585	TERLKIRWHTSDNQVRPQAC	Homo sapiens
2064	190484	Receptor G Protein-Coupled Receptor Ls190484	LR33	434	EADLGATGHRPRTELDDED	Homo sapiens
2065	190484	Receptor G Protein-Coupled Receptor Ls190484	LR33	435	RTCHRQQQPAAACRGFARVAR	Homo sapiens
2066	190484	Receptor G Protein-Coupled Receptor Ls190484	LR33	436	EERPGSFPTPEPQTQLDSEG	Homo sapiens
2067	190484	Receptor G Protein-Coupled Receptor Ls190484	LR33	437	RSDPTAQPLNPTAQPPQSD	Homo sapiens
2068	190595	Receptor G Protein-Coupled Receptor SH120	NP_057418.1	1730	RNVTDTDILALERILLQ	Homo sapiens
2069	190595	Receptor G Protein-Coupled Receptor SH120	NP_057418.1	1731	KKKRMAMARRTMFQKGE	Homo sapiens

2070	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1732	KSVTTSASGSENLTUQQE	Homo sapiens
2071	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1733	EVDALEELSRQLFLETAD	Homo sapiens
2072	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1734	DRVGKTDPVTRGIEIT	Homo sapiens
2073	190599	G Protein-Coupled Receptor GPRC5B	O75205	411	VRLPFIKEKEKKSPVGLH	Homo sapiens
2074	190599	G Protein-Coupled Receptor GPRC5B	O75205	412	DEHNAALRTAGFPNGSLGKR	Homo sapiens
2075	190599	G Protein-Coupled Receptor GPRC5B	O75205	413	GKRPSGSLGKRPSAPFRSNV	Homo sapiens
2076	190599	G Protein-Coupled Receptor GPRC5B	O75205	414	SQPRMRETAFEEDVQLPR	Homo sapiens
2077	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	542	GDPAIYQSLKAGNAYSRLHC	Homo sapiens
2078	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	543	PFSHSSYTVRSKKIFLSKL	Homo sapiens
2079	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	619	GKILLNLTGMRRKNITCQN	Homo sapiens
2080	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	620	EEVTLVQAIRITSYME	Homo sapiens
2081	190623	Melanopsin	AAF24978.1	2137	CKNGESLWQRQLQSE	Homo sapiens
2082	190623	Melanopsin	AAF24978.1	2138	RHSRPYSYRSTHIRST	Homo sapiens
2083	190623	Melanopsin	AAF24978.1	2139	TSHTSNLSWISIRRRQE	Homo sapiens
2084	190623	Melanopsin	AAF24978.1	2140	DLEAKAPRPQGHEAET	Homo sapiens
2085	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1735	KLQRRPVAVDVLLNLTASD	Homo sapiens
2086	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1736	KTRPRLGQAGLVSVAC	Homo sapiens
2087	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1737	EFSGDISHSQGTNGTC	Homo sapiens
2088	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1738	SRLVWILGRGGSHRRQRR	Homo sapiens
2089	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1739	GQWQQQESSMELKEQKGG	Homo sapiens
2090	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1740	EEQRADRPAAERKTSEHSQGC	Homo sapiens
2091	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	2569	MDTGPDQSYFSGNHWFVFSV	Homo sapiens

2092	190701	Receptor GPR41 & GPR42 C-C Chemokine Receptor 11	AAF61299.1	1441	VAIYAYKKQRTKTDV	Homo sapiens
2093	190701	C-C Chemokine Receptor 11	AAF61299.1	1442	VAVTKVPSQSGVGKPCWII	Homo sapiens
2094	190701	C-C Chemokine Receptor 11	AAF61299.1	1443	CNMSKRMDIAIQVTESI	Homo sapiens
2095	190701	C-C Chemokine Receptor 11	AAF61299.1	1444	RQSVVEFPDSEGPTEP	Homo sapiens
2096	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1741	GHPPGSGGAESADTEARVR	Homo sapiens
2097	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1742	HSVASALKSHRIRGHGRGDC	Homo sapiens
2098	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1743	KGGAAVAGGRPTGASARR	Homo sapiens
2099	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1744	CLVRREFRKALKSLLWR	Homo sapiens
2100	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1745	RPFTATTKPEHEDQGLQ	Homo sapiens
2101	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	339	AFPPVLDVGTYSFIREEDQC	Homo sapiens
2102	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	340	HDRRKMKPVQFVAAVSQN	Homo sapiens
2103	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	341	RRRLVLDEFKMEKRISR	Homo sapiens
2104	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	342	LRRCFSTLLYCRKSRLPRE	Homo sapiens
2105	190725	G Protein-Coupled Receptor GPR26	LR26	554	PLTLAGVVARROPAGDRLC	Homo sapiens
2106	190725	G Protein-Coupled Receptor GPR26	LR26	555	CSRRPDERLRFVFTGA	Homo sapiens
2107	190725	G Protein-Coupled Receptor GPR26	LR26	557	CKEILNRLHRRSIHSSG	Homo sapiens
2108	190725	G Protein-Coupled Receptor GPR26	LR26	567	CLEEQKRRRQRATKKIST	Homo sapiens
2109	190741	Sreb3	LR9	516	EPEEVSGALSPPSASAVVK	Homo sapiens
2110	190741	Sreb3	LR9	519	NGHAASRRLLGMDEVKGEK	Homo sapiens
2111	190741	Sreb3	LR9	526	KKCLRTHAPCWGTGGAPAPR	Homo sapiens
2112	190741	Sreb3	LR9	527	VLMAATHAVVGKLLFEYR	Homo sapiens

2113	190742	G Protein-Coupled Receptor H7BA62	LR23	550	RRAPGPPSDTFVFNILAD	Homo sapiens
2114	190742	G Protein-Coupled Receptor H7BA62	LR23	551	QRRQRRRQDSRVVARSVR	Homo sapiens
2115	190742	G Protein-Coupled Receptor H7BA62	LR23	552	RREPRQALAGTFRDLSR	Homo sapiens
2116	190742	G Protein-Coupled Receptor H7BA62	LR23	553	KQVGRRWVASNPRESRPS	Homo sapiens
2117	190743	G Protein-Coupled Receptor GPRC5D	LR32	568	KDCIESTG DYFLLCDAEGP	Homo sapiens
2118	190743	G Protein-Coupled Receptor GPRC5D	LR32	569	VENQELSRGTF LGDSGR	Homo sapiens
2119	190743	G Protein-Coupled Receptor GPRC5D	LR32	570	GDSGSREVL LQEKQEK NHA	Homo sapiens
2120	190743	G Protein-Coupled Receptor GPRC5D	LR32	571	SMLLRGNPQFQRQPQWDDP	Homo sapiens
2121	190744	G Protein-Coupled Receptor GPRC5C	LR34	529	KVPSEELTSSSHGPPPTAR	Homo sapiens
2122	190744	G Protein-Coupled Receptor GPRC5C	LR34	532	RSGEGGPGQGNSSAGWAV	Homo sapiens
2123	190744	G Protein-Coupled Receptor GPRC5C	LR34	535	QDTKKRSL LGTVFFLLGT	Homo sapiens
2124	190744	G Protein-Coupled Receptor GPRC5C	LR34	538	KEQKGQSMFVENKAFSMD E	Homo sapiens
2125	190745	G Protein-Coupled Receptor LGR7	LR40	560	TATEIRNQVKKEMILAKR	Homo sapiens
2126	190745	G Protein-Coupled Receptor LGR7	LR40	561	NYRQRKSMDSKGQKTYAPS	Homo sapiens
2127	190745	G Protein-Coupled Receptor LGR7	LR40	565	SCSNLTVLVMIRKNKINHLN	Homo sapiens
2128	190745	G Protein-Coupled Receptor LGR7	LR40	566	DELDLGSNKIENLPPLFKD	Homo sapiens
2129	190748	GPCR Ls190748	LR47	546	QLSSPSRPTQKTLCSLR	Homo sapiens
2130	190748	GPCR Ls190748	LR47	547	DMLKIASMHSGQIRKMEHAG	Homo sapiens
2131	190748	GPCR Ls190748	LR47	548	AGGYRSPRTPSDFKALRTVS	Homo sapiens
2132	190748	GPCR Ls190748	LR47	549	RESSCHIVTSSSEFDG	Homo sapiens
2133	190748	GPCR Ls190748	LR47	1481	GVKKVLTSLFLLSARNC	Homo sapiens
2134	190748	GPCR Ls190748	LR47	1482	NSLLNPLVAYWQKEVRLQ	Homo sapiens
2135	190749	G Protein-Coupled	LR48	467	RRAALRP RPARGSR LRS D	Homo sapiens

2136	190749	Receptor GPR62	LR48	468	RPVRLALGRLRRALPGPVR	Homo sapiens
2137	190749	G Protein-Coupled Receptor GPR62	LR48	510	DSRLSILPPLRPLPGGK	Homo sapiens
2138	190749	G Protein-Coupled Receptor GPR62	LR48	511	RPPEGPAVGPSEAPEQTPE	Homo sapiens
2139	190749	G Protein-Coupled Receptor GPR62	LR48	2702	VVARRAALRPPRPA	Homo sapiens
2140	190749	G Protein-Coupled Receptor GPR62	LR48	2703	PSEAPEQTPELAGGR	Homo sapiens
2141	190749	G Protein-Coupled Receptor GPR62	LR48	2704	GPSEAPEQTPELAG	Homo sapiens
2142	190774	Histamine H4 Receptor	NP_067637.2	2235	PDNSTINLSLSTRVTLAFL	Homo sapiens
2143	190774	Histamine H4 Receptor	NP_067637.2	2237	VVDKNILRHRSSYFFLN	Homo sapiens
2144	190774	Histamine H4 Receptor	NP_067637.2	2240	LYPHTLFEWDFGKEIC	Homo sapiens
2145	190774	Histamine H4 Receptor	NP_067637.2	2242	TQHTGVLKIVTLMAVAV	Homo sapiens
2146	190774	Histamine H4 Receptor	NP_067637.2	2243	VNGPMILVSESWKDEGSEC	Homo sapiens
2147	190774	Histamine H4 Receptor	NP_067637.2	2244	CEPGFSEWYLAITSFL	Homo sapiens
2148	190774	Histamine H4 Receptor	NP_067637.2	2245	AVFNMINIYWSLWKRDHLRRC	Homo sapiens
2149	190774	Histamine H4 Receptor	NP_067637.2	2246	CGHSFRGRLSSRRSL	Homo sapiens
2150	190774	Histamine H4 Receptor	NP_067637.2	2247	IASKMGFSQSDSVAlHQRE	Homo sapiens
2151	190774	Histamine H4 Receptor	NP_067637.2	2249	IVLSFYSSATGPKSVWYRIA	Homo sapiens
2152	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2085	IIRVTVPGKITGTVAC	Homo sapiens
2153	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2086	SPWTNDPKERINVAVA	Homo sapiens
2154	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2087	RIRELLQGMYKEIGIAVD	Homo sapiens
2155	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2088	TQTSDDTATNSTLPSAE	Homo sapiens
2156	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	481	TEVPDQAQTSNTHITSAS	Homo sapiens
2157	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	522	GDTAVERLNVFITMAKV	Homo sapiens
2158	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	523	MSLAKRVMITGLWIFTI	Homo sapiens
2159	190824	Formyl Peptide Receptor	LR14	525	LHFHIGFTVPMISITV	Homo sapiens

2160	190948	like 2 (FPRL2)	NP_038475.1	1658	DELLEAPGDLETLPRLLQHC	Homo sapiens
2161	190948	EMR2 Hormone Receptor	NP_038475.1	1659	CVASHLLDGLDVLRLGLSKN	Homo sapiens
2162	190948	EMR2 Hormone Receptor	NP_038475.1	1660	KSGDPGPSVVGVLSPG	Homo sapiens
2163	190948	EMR2 Hormone Receptor	NP_038475.1	1661	SKGIRKLKTESEMTLSSS	Homo sapiens
2164	190948	EMR2 Hormone Receptor	NP_038475.1	1662	ELSLEVQKQVDRSVTLRQNG	Homo sapiens
2165	190948	EMR2 Hormone Receptor	NP_038475.1	1663	EPEKQMLLHETHQGLLDGGS	Homo sapiens
2166	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1492	KRMQKRSVTALMVNLALAD	Homo sapiens
2167	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1493	RPFVSQKLRTKAMARR	Homo sapiens
2168	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1494	ASYSDIGRRLLQARRFR	Homo sapiens
2169	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1495	LEGTGSEASSTRRGGS	Homo sapiens
2170	191039	Trace Amine Receptor 1 (TA1)	LR122	2039	RKALKMMLFGKIFQKDSRC	Homo sapiens
2171	191039	Trace Amine Receptor 1 (TA1)	LR122	2040	QIGLEMKNGISQSKERKAV	Homo sapiens
2172	191039	Trace Amine Receptor 1 (TA1)	LR122	2041	RIYJAKEQARLSDANQK	Homo sapiens
2173	191039	Trace Amine Receptor 1 (TA1)	LR122	2042	ELNFKGAEIYKHHVHC	Homo sapiens
2174	191039	Trace Amine Receptor 1 (TA1)	LR122	2043	CVKNNWSNDVRASLYS	Homo sapiens
2175	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1569	SAEPPADWDGAGGSYRLRG	Homo sapiens
2176	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1571	GIVRRVRVSVKRVSVLN	Homo sapiens
2177	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1572	RNEEFRRSVRSVLPGVGDA	Homo sapiens
2178	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1573	CEEEESWAGRRIPVSLYS	Homo sapiens
2179	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1651	CYLGIVRRVRVSVKRV	Homo sapiens
2180	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1544	KELYRSVVRTRGVGKVP	Homo sapiens
2181	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1545	ILTNRQPRDKNVKKCS	Homo sapiens

2182	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1546	CPNSATSLSQDNIRKKEQDGG	Homo sapiens
2183	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1570	TTRPFKTSNPKNILLGAK	Homo sapiens
2184	191193	Trace Amine Receptor 3 (TA3)	LR88	1969	ANEEGIEELVVA	Homo sapiens
2185	191193	Trace Amine Receptor 3 (TA3)	LR88	2316	RKIESTASQAQSS	Homo sapiens
2186	191193	Trace Amine Receptor 3 (TA3)	LR88	2571	LVDIVIDAYMNF	Homo sapiens
2187	191193	Trace Amine Receptor 3 (TA3)	LR88	2573	RTDSSTTNLFSEEVET	Homo sapiens
2188	191196	G Protein-Coupled - Receptor GPR80	IP_13092	1864	NASDFPDYAAAFGNCTDE	Homo sapiens
2189	191196	G Protein-Coupled Receptor GPR80	IP_13092	1865	TLTSTNRTNRSACLD	Homo sapiens
2190	191196	G Protein-Coupled Receptor GPR80	IP_13092	1866	TLTHGLQTDSCCLKQKARR	Homo sapiens
2191	191196	G Protein-Coupled Receptor GPR80	IP_13092	1867	RLLSICSIENQIHEA	Homo sapiens
2192	191196	G Protein-Coupled Receptor GPR80	IP_13092	1868	QQAVCSTVRCKVSGNLE	Homo sapiens
2193	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2749	QDIAEVDHSEGCF	Homo sapiens
2194	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2750	RKQWRLQQPIKLKA	Homo sapiens
2195	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2751	CSISINFPSTFTVMTG	Homo sapiens
2196	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2752	QWFLILWWKDSV	Homo sapiens
2197	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2575	AF LSDNTIEVRINRTLKK	Homo sapiens
2198	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2576	QETKNEFRNLKQIQSKC	Homo sapiens
2199	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2577	CNNKTHWAPVRSTM	Homo sapiens
2200	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2581	TKMAEYDLQNDVFIPD	Homo sapiens
2201	193511	EGF-Like Module-Containing	AAK15076.1	1665	CQDTSSKTEGRKELQKIV	Homo sapiens

2202	193511	Mucin-Like Receptor EMR3	AAK15076.1	1666	RDVESKVLKALDPEQK	Homo sapiens
2203	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	AAK15076.1	1667	KIQNDSVAIETQAIDNC	Homo sapiens
2204	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	AAK15076.1	1668	CSEERKTFNLNVQMNSMDIR	Homo sapiens
2205	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	AAK15076.1	1669	EEMDKKDDQVYVNSQVVSAA	Homo sapiens
2206	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	AAK15076.1	1670	SKSVTLTFQHVKMTPTSK	Homo sapiens
2207	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2142	CLLLPTAVIVFSYVKIIAK	Homo sapiens
2208	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2144	RPDSIPQLSVVPTLLA	Homo sapiens
2209	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2145	CQTGGGLKATKKKSLEG	Homo sapiens
2210	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2146	RLHVTIVRKSSAVLE	Homo sapiens
2211	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2620	PTAVIVFSYVKIIAKV	Homo sapiens
2212	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1947	KLAQRLREVTGHTDHYFSQD	Homo sapiens
2213	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1948	CALQITWGSERRLGLDTSKD	Homo sapiens
2214	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2734	RGRRRQSARNSRGPPEQPNE	Homo sapiens
2215	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2735	RNSRGPPEQPNEELG	Homo sapiens
2216	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2736	AQVREDVRPHTVVLRL	Homo sapiens
2217	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2742	QLDQVPSRHPSPRE	Homo sapiens

2218	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2744	LDLSRSSNSREQLDQV	Homo sapiens
2219	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1903	REEHFMVDARNRSPLYSC	Homo sapiens
2220	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1904	PGPAPGGEAAADPRASRR	Homo sapiens
2221	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1905	CPRPSGSHKEAYSERPGGL	Homo sapiens
2222	193914	Neuropeptide FF 1 Receptor	NP_071429.1	1906	PSSGAPRPGRLPLRNGRVA	Homo sapiens
2223	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2018	FLGKNDIDIKTKKELVN	Homo sapiens
2224	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2019	QVTYRDSKEKRDLRNFLK	Homo sapiens
2225	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2020	CERTKIWGTFKINERFTND	Homo sapiens
2226	194319	G Protein-Coupled Receptor FLJ22684	NP_079324.1	2021	SKYANGIEIQLKKAYER	Homo sapiens
2227	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2022	CIVVFIVRTERSLHAP	Homo sapiens
2228	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2023	KILALFWFDSREISFEAC	Homo sapiens
2229	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2024	CVHQDVMKLAYADTLP	Homo sapiens
2230	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2027	RFGNSLHPVIRVVMGD	Homo sapiens
2231	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	2028	KTKQIRTRVLAMFKISC	Homo sapiens
2232	194743	FLJ14454	LR77	1855	KTDENEGDQSASVDMVFSP	Homo sapiens
2233	194743	FLJ14454	LR77	1856	KKDYGYPKSLDLSNVGC	Homo sapiens
2234	194743	FLJ14454	LR77	1857	KNLQTSDDGINNIDFDNN	Homo sapiens
2235	194743	FLJ14454	LR77	1858	SQNGNNPQWELDYRQEKIC	Homo sapiens
2236	194743	FLJ14454	LR77	1859	RPRLRVKMYNFLRSLPTLHE	Homo sapiens
2237	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1845	CNPSVPKQRVMKLTGM	Homo sapiens
2238	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1846	RLTRWRTRYKTIRINLG	Homo sapiens
2239	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1847	KDGVESCAFDLTSPDDVL	Homo sapiens
2240	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1848	LSGNFQKRLPQIQRRATE	Homo sapiens

2241	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1849	TIIRSRKKTVPDIYIC	Homo sapiens
2242	194745	G Protein-Coupled Receptor SLT/MCH2	AAK32193.1	1907	RRATEKEINNMGNTLKSHF	Homo sapiens
2243	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2089	CRIGEDTISQVMPPLLVA	Homo sapiens
2244	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2090	RRHWAFGDIPCRVGLFIL	Homo sapiens
2245	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2091	CESFIMESANGWHDIM	Homo sapiens
2246	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2092	CSFKIVWSLRRRQQLARQAR	Homo sapiens
2247	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2093	RRRQQLARQARMKKATR	Homo sapiens
2248	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2094	TVPSSACDPSVHGALH	Homo sapiens
2249	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2095	CSLKPQPGHSHKTQRPEEM	Homo sapiens
2250	194756	Chemokine Receptor FKSG80/GPR81	AAK29071.1	2096	CISVANSFQSQSDGQWD	Homo sapiens
2251	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2034	RTRKQHSEATNSSNRVFVYC	Homo sapiens
2252	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2035	RVISQISADNYKIHGDPSA	Homo sapiens
2253	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2036	TSSARTSNAKPFHSD	Homo sapiens
2254	194757	G Protein-Coupled Receptor Ls194757	CAB82385.1	2037	NGTRPGMASTKLSPWD	Homo sapiens
2255	194858	G Protein-Coupled Receptor Ls194858	LR84	1933	LGIAWDRRLRSPAGC	Homo sapiens
2256	194858	G Protein-Coupled Receptor Ls194858	LR84	1934	GERYMAVLRPLQPPGS	Homo sapiens
2257	194858	G Protein-Coupled Receptor Ls194858	LR84	1935	CRDEPSALARALTWRQAR	Homo sapiens
2258	194858	G Protein-Coupled Receptor Ls194858	LR84	1936	AAQRCLQGLWGRASRD	Homo sapiens
2259	194858	G Protein-Coupled Receptor Ls194858	LR84	1937	RDSPGPSIAYHPSSQSSVD	Homo sapiens
2260	194878	MrgX3 G Protein-Coupled	AAK91806.1	2748	ALFSRIHLDWKVLF	Homo sapiens

2261	194903	Receptor G Protein-Coupled Receptor GPCR83	ENSP00000198236	1991	CIAFKDIMPFSAGVGDER	Homo sapiens
2262	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1992	KAFFEAYARADKKAPRPC	Homo sapiens
2263	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1993	ETKIQWHGKDNQVPKSV	Homo sapiens
2264	194903	G Protein-Coupled Receptor GPCR83	ENSP00000198236	1994	CSYLGKDLPENYNK	Homo sapiens
2265	194904	WO0343334-hFB41A	LR114	2011	SDYDMPLEDEEDVTNS	Homo sapiens
2266	194904	WO0343334-hFB41A	LR114	2014	NPHGAHATSPFNFSY	Homo sapiens
2267	194905	G Protein-Coupled Receptor MGC7035	LR112	1986	ERALPRTYMASVYNTRHVC	Homo sapiens
2268	194905	G Protein-Coupled Receptor MGC7035	LR112	1987	CAKMQNAEAAADATLVF	Homo sapiens
2269	194905	G Protein-Coupled Receptor MGC7035	LR112	1988	DRDTGRLEPSAHLRLVATVC	Homo sapiens
2270	194905	G Protein-Coupled Receptor MGC7035	LR112	1989	RYMNQSFPSKLQRLMKKLPC	Homo sapiens
2271	194907	G Protein-Coupled Receptor 14273	LR116	2003	CARAAAGDAPLRSLQANRTR	Homo sapiens
2272	194907	G Protein-Coupled Receptor 14273	LR116	2004	VISYSKILQTTKASRKRL	Homo sapiens
2273	194907	G Protein-Coupled Receptor 14273	LR116	2005	TVSLAYSRSHQIRVSQQD	Homo sapiens
2274	194907	G Protein-Coupled Receptor 14273	LR116	2006	CTWFPEKGAILTDTSVKRND	Homo sapiens
2275	194908	G Protein-coupled Receptor Gpcrb4	LR117	2007	TYGRDNGQLLGERVARRDIC	Homo sapiens
2276	194908	G Protein-coupled Receptor Gpcrb4	LR117	2008	QETLPTLQPNQNMITEERQIR	Homo sapiens
2277	194908	G Protein-coupled Receptor Gpcrb4	LR117	2009	RTSQSYTCNQECDNCLNAT	Homo sapiens
2278	194908	G Protein-coupled Receptor Gpcrb4	LR117	2010	RPQSHPRTPDDPKITIVSC	Homo sapiens
2279	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2312	VARRQAKKIENTGSKT	Homo sapiens
2280	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2313	KVIVTGQVLKNSSA	Homo sapiens

2281	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	2318	MSSNSLLVAVQLC	Homo sapiens
2282	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2307	IAKQQAIIETSSKV	Homo sapiens
2283	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2314	MTSNFSQPVWQLC	Homo sapiens
2284	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2319	KLILSGDVLKAS	Homo sapiens
2285	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	2570	SGDVLKASSSTISLFL	Homo sapiens
2286	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2727	QDKPEVDKGGGQLPEESL	Homo sapiens
2287	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2728	UNISHLIRKILVS	Homo sapiens
2288	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	2729	MDPTVPVFGTKL	Homo sapiens
2289	195015	G Protein-Coupled Receptor GPR82	AAL26482	2706	RYATLMQKDSSEIT	Homo sapiens
2290	195015	G Protein-Coupled Receptor GPR82	AAL26482	2707	KIFYGHLLKKFRQPNF	Homo sapiens
2291	195015	G Protein-Coupled Receptor GPR82	AAL26482	2708	YSVIEATEGEESLC	Homo sapiens
2292	195015	G Protein-Coupled Receptor GPR82	AAL26482	2715	CTSIMEKDLTYSSVKR	Homo sapiens

SEQ ID NO:	LS_ID	Gene	Antibody Company Name
1	127	5-HT1A Receptor	Chemicon
1	127	5-HT1A Receptor	Research Diagnostics
1	127	5-HT1A Receptor	Santa Cruz
3	128	5-HT1B Receptor	Chemicon
3	128	5-HT1B Receptor	Research Diagnostics
3	128	5-HT1B Receptor	Santa Cruz
5	129	5-HT1D Receptor	Research Diagnostics
5	129	5-HT1D Receptor	Santa Cruz
11	132	5-HT2A Receptor	Calbiochem
11	132	5-HT2A Receptor	Research Diagnostics
13	133	5-HT2B Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Research Diagnostics
15	134	5-HT2C Receptor	Santa Cruz
21	139	5-HT7 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Alpha Diagnostic Int.
23	272	Adenosine A1 Receptor	Calbiochem
23	272	Adenosine A1 Receptor	Santa Cruz
25	273	Adenosine A2a Receptor	Alpha Diagnostic Int.
25	273	Adenosine A2a Receptor	Calbiochem
25	273	Adenosine A2a Receptor	Chemicon
25	273	Adenosine A2a Receptor	Santa Cruz
27	274	Adenosine A2b Receptor	Alpha Diagnostic Int.
27	274	Adenosine A2b Receptor	Chemicon
27	274	Adenosine A2b Receptor	Santa Cruz
29	275	Adenosine A3 Receptor	Alpha Diagnostic Int.
29	275	Adenosine A3 Receptor	Santa Cruz
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Alpha Diagnostic Int.
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Chemicon
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Research Diagnostics
31	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	Santa Cruz
35	377	Alpha 1b-adrenoceptor	Research Diagnostics
35	377	Alpha 1b-adrenoceptor	Santa Cruz
37	379	Alpha 1c-adrenoceptor	Research Diagnostics
37	379	Alpha 1c-adrenoceptor	Santa Cruz
39	387	Alpha 2a-adrenoceptor	Calbiochem
39	387	Alpha 2a-adrenoceptor	Santa Cruz
41	388	Alpha 2b-adrenoceptor	Research Diagnostics
41	388	Alpha 2b-adrenoceptor	Santa Cruz
43	389	Alpha 2c-adrenoceptor	Research Diagnostics
43	389	Alpha 2c-adrenoceptor	Santa Cruz
45	599	Bradykinin B1 Receptor	Research Diagnostics
49	635	Beta-1 adrenoceptor	Calbiochem
49	635	Beta-1 adrenoceptor	Research Diagnostics

49	635	Beta-1 adrenoceptor	Santa Cruz
51	640	Beta-2 adrenoceptor	Research Diagnostics
51	640	Beta-2 adrenoceptor	Santa Cruz
53	643	Beta-3 adrenoceptor	Alpha Diagnostic Int.
53	643	Beta-3 adrenoceptor	Chemicon
53	643	Beta-3 adrenoceptor	Research Diagnostics
53	643	Beta-3 adrenoceptor	Santa Cruz
57	692	Bombesin Receptor Subtype-3	Alpha Diagnostic Int.
57	692	Bombesin Receptor Subtype-3	Chemicon
59	729	CXC Chemokine Receptor 5	Research Diagnostics
59	729	CXC Chemokine Receptor 5	Santa Cruz
61	735	C-C Chemokine Receptor 1	Calbiochem
61	735	C-C Chemokine Receptor 1	Capralogics
61	735	C-C Chemokine Receptor 1	Chemicon
61	735	C-C Chemokine Receptor 1	Research Diagnostics
61	735	C-C Chemokine Receptor 1	Santa Cruz
63	737	C-C Chemokine Receptor 3	Research Diagnostics
63	737	C-C Chemokine Receptor 3	Santa Cruz
65	738	C-C Chemokine Receptor 4	Capralogics
65	738	C-C Chemokine Receptor 4	Research Diagnostics
65	738	C-C Chemokine Receptor 4	Santa Cruz
67	741	C-C Chemokine Receptor 7	Research Diagnostics
67	741	C-C Chemokine Receptor 7	Santa Cruz
69	742	C-C Chemokine Receptor 8	Chemicon
70	742	C-C Chemokine Receptor 8	Chemicon
71	742	C-C Chemokine Receptor 8	Chemicon
73	752	CXC Chemokine Receptor 3	Research Diagnostics
73	752	CXC Chemokine Receptor 3	Santa Cruz
73	752	CXC Chemokine Receptor 3	Zymed
75	753	CXC Chemokine Receptor 4	Biosource
75	753	CXC Chemokine Receptor 4	Calbiochem
75	753	CXC Chemokine Receptor 4	Capralogics
75	753	CXC Chemokine Receptor 4	Chemicon
75	753	CXC Chemokine Receptor 4	eBioscience
75	753	CXC Chemokine Receptor 4	Research Diagnostics
75	753	CXC Chemokine Receptor 4	Santa Cruz
77	755	Complement Component 3a Receptor 1	Chemokine.com
79	758	Complement Component 5a Receptor 1	Santa Cruz
83	832	Cannabinoid Receptor 1	Alpha Diagnostic Int.
83	832	Cannabinoid Receptor 1	Biosource
83	832	Cannabinoid Receptor 1	Calbiochem
83	832	Cannabinoid Receptor 1	Cayman
83	832	Cannabinoid Receptor 1	Chemicon
83	832	Cannabinoid Receptor 1	Santa Cruz
85	833	Cannabinoid Receptor 2	Alpha Diagnostic Int.
85	833	Cannabinoid Receptor 2	Calbiochem
85	833	Cannabinoid Receptor 2	Cayman
85	833	Cannabinoid Receptor 2	Chemicon
85	833	Cannabinoid Receptor 2	Santa Cruz
97	1240	Dopamine Receptor D1	Alpha Diagnostic Int.
97	1240	Dopamine Receptor D1	Biogenesis

97	1240	Dopamine Receptor D1	Calbiochem
97	1240	Dopamine Receptor D1	Chemicon
97	1240	Dopamine Receptor D1	FabGennix through Abcam
97	1240	Dopamine Receptor D1	Research Diagnostics
97	1240	Dopamine Receptor D1	Santa Cruz
99	1241	Dopamine Receptor D5	Alpha Diagnostic Int.
99	1241	Dopamine Receptor D5	Biogenesis
99	1241	Dopamine Receptor D5	Calbiochem
99	1241	Dopamine Receptor D5	Chemicon
99	1241	Dopamine Receptor D5	Santa Cruz
101	1242	Dopamine Receptor D2	Alpha Diagnostic Int.
101	1242	Dopamine Receptor D2	Biogenesis
101	1242	Dopamine Receptor D2	Calbiochem
101	1242	Dopamine Receptor D2	Chemicon
101	1242	Dopamine Receptor D2	DPC Biermann/Acris
101	1242	Dopamine Receptor D2	FabGennix through Abcam
101	1242	Dopamine Receptor D2	Research Diagnostics
101	1242	Dopamine Receptor D2	Santa Cruz
103	1243	Dopamine Receptor D3	Alpha Diagnostic Int.
103	1243	Dopamine Receptor D3	Biogenesis
103	1243	Dopamine Receptor D3	Calbiochem
103	1243	Dopamine Receptor D3	Chemicon
103	1243	Dopamine Receptor D3	Research Diagnostics
103	1243	Dopamine Receptor D3	Santa Cruz
103	1243	Dopamine Receptor D3	Zymed
105	1244	Dopamine Receptor D4	Alpha Diagnostic Int.
105	1244	Dopamine Receptor D4	Biogenesis
105	1244	Dopamine Receptor D4	Calbiochem
105	1244	Dopamine Receptor D4	Chemicon
105	1244	Dopamine Receptor D4	DPC Biermann/Acris
105	1244	Dopamine Receptor D4	Santa Cruz
107	1267	Opioid Receptor, delta 1 (OPRD1)	Biosource
107	1267	Opioid Receptor, delta 1 (OPRD1)	Calbiochem
107	1267	Opioid Receptor, delta 1 (OPRD1)	DPC Biermann/Acris
107	1267	Opioid Receptor, delta 1 (OPRD1)	Santa Cruz
113	1486	Endothelin B Receptor	Biogenesis
113	1486	Endothelin B Receptor	Capralogics
113	1486	Endothelin B Receptor	DPC Biermann/Acris
113	1486	Endothelin B Receptor	Fitzgerald Industries Int.
113	1486	Endothelin B Receptor	Research Diagnostics
115	1488	Endothelin A Receptor	Biogenesis
115	1488	Endothelin A Receptor	Capralogics
115	1488	Endothelin A Receptor	DPC Biermann/Acris
115	1488	Endothelin A Receptor	Fitzgerald Industries Int.
115	1488	Endothelin A Receptor	Research Diagnostics
117	1598	Calcium-Sensing Receptor (CASR)	Chemicon
117	1598	Calcium-Sensing Receptor (CASR)	DPC Biermann/Acris

121	1681	Follicle Stimulating Hormone Receptor	Biogenesis
121	1681	Follicle Stimulating Hormone Receptor	DPC Biermann/Acris
121	1681	Follicle Stimulating Hormone Receptor	Santa Cruz
125	1762	Galanin Receptor GalR1	Alpha Diagnostic Int.
135	1925	Gonadotropin-Releasing Hormone Receptor	Biocarta
135	1925	Gonadotropin-Releasing Hormone Receptor	Lab Vision Corporation/NeoMarkers
135	1925	Gonadotropin-Releasing Hormone Receptor	Research Diagnostics
135	1925	Gonadotropin-Releasing Hormone Receptor	Santa Cruz
139	1951	Growth Hormone Secretagogue Receptor	Santa Cruz
143	2120	Histamine H1 Receptor	Alpha Diagnostic Int.
143	2120	Histamine H1 Receptor	Chemicon
145	2121	Histamine H2 Receptor	Alpha Diagnostic Int.
145	2121	Histamine H2 Receptor	Chemicon
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Biosource
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Calbiochem
147	2783	Opioid Receptor, kappa 1 (OPRK1)	DPC Biermann/Acris
147	2783	Opioid Receptor, kappa 1 (OPRK1)	Santa Cruz
151	2976	Lysophosphatidic Acid Receptor Edg2	Exalpha Biologicals
155	3057	Melanocortin 3 Receptor (MC3R)	Alpha Diagnostic Int.
155	3057	Melanocortin 3 Receptor (MC3R)	Chemicon
155	3057	Melanocortin 3 Receptor (MC3R)	Research Diagnostics
155	3057	Melanocortin 3 Receptor (MC3R)	Santa Cruz
157	3058	Melanocortin 4 Receptor (MC4R)	Alpha Diagnostic Int.
157	3058	Melanocortin 4 Receptor (MC4R)	Chemicon
157	3058	Melanocortin 4 Receptor (MC4R)	Research Diagnostics
157	3058	Melanocortin 4 Receptor (MC4R)	Santa Cruz
159	3059	Melanocortin 5 Receptor (MC5R)	Alpha Diagnostic Int.
159	3059	Melanocortin 5 Receptor (MC5R)	Chemicon
159	3059	Melanocortin 5 Receptor (MC5R)	Research Diagnostics

159	3059	Melanocortin 5 Receptor (MC5R)	Santa Cruz
161	3061	Melanocortin 1 Receptor (MC1R)	Alpha Diagnostic Int.
161	3061	Melanocortin 1 Receptor (MC1R)	Chemicon
161	3061	Melanocortin 1 Receptor (MC1R)	Research Diagnostics
161	3061	Melanocortin 1 Receptor (MC1R)	Santa Cruz
169	3093	Metabotropic Glutamate Receptor 1	Chemicon
171	3094	Metabotropic Glutamate Receptor 2	Chemicon
173	3095	Metabotropic Glutamate Receptor 3	Chemicon
175	3096	Metabotropic Glutamate Receptor 4	Zymed
177	3097	Metabotropic Glutamate Receptor 5	Chemicon
183	3100	Metabotropic Glutamate Receptor 8	Chemicon
185	3212	Opioid mu-type Receptor	Biosource
185	3212	Opioid mu-type Receptor	Calbiochem
185	3212	Opioid mu-type Receptor	Chemicon
185	3212	Opioid mu-type Receptor	DPC Biermann/Acris
185	3212	Opioid mu-type Receptor	Santa Cruz
187	3223	Muscarinic acetylcholine Receptor M1	Biogenesis
187	3223	Muscarinic acetylcholine Receptor M1	Calbiochem
187	3223	Muscarinic acetylcholine Receptor M1	Chemicon
187	3223	Muscarinic acetylcholine Receptor M1	Santa Cruz
189	3224	Muscarinic acetylcholine Receptor M2	Biogenesis
189	3224	Muscarinic acetylcholine Receptor M2	Calbiochem
189	3224	Muscarinic acetylcholine Receptor M2	Chemicon
189	3224	Muscarinic acetylcholine Receptor M2	Santa Cruz
191	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
192	3226	Muscarinic acetylcholine Receptor M4	Biogenesis
191	3226	Muscarinic acetylcholine Receptor M4	Chemicon
192	3226	Muscarinic acetylcholine Receptor M4	Chemicon
191	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz

192	3226	Muscarinic acetylcholine Receptor M4	Santa Cruz
194	3227	Muscarinic Acetylcholine Receptor M5	Biogenesis
194	3227	Muscarinic Acetylcholine Receptor M5	Santa Cruz
200	3404	Neuropeptide Y Receptor Type 2	Biogenesis
202	3405	Neuropeptide Y Receptor Type 4	Biogenesis
206	3408	Neurotensin Receptor Type 1	Santa Cruz
208	3452	Opiate Receptor-Like 1 (OPRL1)	Santa Cruz
214	3582	Oxytocin Receptor	Santa Cruz
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Chemicon
216	3589	Purinergic Receptor P2Y, G-protein coupled, 2 (P2RY2)	Zymed
218	3595	Purinergic Receptor P2Y1	Chemicon
218	3595	Purinergic Receptor P2Y1	Zymed
228	3640	Parathyroid Hormone Receptor 1 (PTH1R)	Biocarta
228	3640	Parathyroid Hormone Receptor 1 (PTH1R)	Lab Vision Corporation/NeoMarkers
228	3640	Parathyroid Hormone Receptor 1 (PTH1R)	Santa Cruz
236	3846	Sphingolipid Receptor Edg1	Exalpa Biologicals
238	3847	Sphingolipid Receptor Edg3	Exalpa Biologicals
240	3848	C-C Chemokine Receptor 9	Research Diagnostics
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemicon
248	3852	CX3C Chemokine Fractalkine Receptor 1	Chemokine.com
248	3852	CX3C Chemokine Fractalkine Receptor 1	eBioscience
250	3853	G Protein-Coupled Receptor GPR15	Santa Cruz
264	3860	G Protein-Coupled Receptor SLC/MCH1	Alpha Diagnostic Int.
264	3860	G Protein-Coupled Receptor SLC/MCH1	Santa Cruz
295	3927	Prostaglandin E Receptor EP4	Cayman
299	4051	Proteinase-Activated Receptor 2	Research Diagnostics
299	4051	Proteinase-Activated Receptor 2	Santa Cruz
301	4052	Proteinase-Activated Receptor 3	Research Diagnostics
301	4052	Proteinase-Activated Receptor 3	Santa Cruz
305	4254	Rhodopsin	Biocarta
305	4254	Rhodopsin	DPC Biermann/Acris
311	4480	Somatostatin Receptor Type 1	Santa Cruz

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313	4481	Somatostatin Receptor Type 2	Biogenesis
313	4481	Somatostatin Receptor Type 2	Santa Cruz
315	4482	Somatostatin Receptor Type 3	Santa Cruz
317	4483	Somatostatin Receptor Type 4	Santa Cruz
319	4484	Somatostatin Receptor Type 5	Santa Cruz
321	4552	Tachykinin Receptor 1	Santa Cruz
323	4687	Thrombin Receptor	DPC Biermann/Acris
323	4687	Thrombin Receptor	Research Diagnostics
323	4687	Thrombin Receptor	Santa Cruz
325	4734	Thyrotropin Releasing Hormone Receptor	Santa Cruz
327	4944	Angiotensin II Type 1 Receptor	Alpha Diagnostic Int.
327	4944	Angiotensin II Type 1 Receptor	Biocarta
327	4944	Angiotensin II Type 1 Receptor	Biogenesis
327	4944	Angiotensin II Type 1 Receptor	Capralogics
327	4944	Angiotensin II Type 1 Receptor	Chemicon
327	4944	Angiotensin II Type 1 Receptor	DPC Biermann/Acris
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Fitzgerald Industries Int.
327	4944	Angiotensin II Type 1 Receptor	Lab Vision Corporation/NeoMarkers
327	4944	Angiotensin II Type 1 Receptor	Santa Cruz
329	4946	Angiotensin II Type 2 Receptor	Alpha Diagnostic Int.
329	4946	Angiotensin II Type 2 Receptor	DPC Biermann/Acris
329	4946	Angiotensin II Type 2 Receptor	Santa Cruz
331	5072	Pyrimidinergic Receptor P2Y4	Chemicon
333	5117	Vasopressin V1A Receptor	Chemicon
335	5118	Vasopressin V1B Receptor	Alpha Diagnostic Int.
335	5118	Vasopressin V1B Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Alpha Diagnostic Int.
337	5119	Vasopressin V2 Receptor	Chemicon
337	5119	Vasopressin V2 Receptor	Research Diagnostics
347	6031	SIV/HIV Receptor BONZO	Santa Cruz
349	6204	Lysophosphatidic Acid Receptor Edg4	Exalpha Biologicals
351	6213	C-C Chemokine Receptor 5	Calbiochem
351	6213	C-C Chemokine Receptor 5	Capralogics
351	6213	C-C Chemokine Receptor 5	Chemicon
351	6213	C-C Chemokine Receptor 5	Research Diagnostics
351	6213	C-C Chemokine Receptor 5	Santa Cruz
361	6853	Purinergic Receptor P2Y11	Zymed

365	7221	Galanin Receptor GalR2	Alpha Diagnostic Int.
367	7246	Orexin Receptor 1	Alpha Diagnostic Int.
369	7247	Orexin Receptor 2	Alpha Diagnostic Int.
371	8436	Platelet-Activating Factor Receptor	Cayman
371	8436	Platelet-Activating Factor Receptor	Santa Cruz
377	9421	Neuropeptide Y Receptor Type 1	Biogenesis
377	9421	Neuropeptide Y Receptor Type 1	DPC Biermann/Acris
379	9834	Corticotropin releasing factor Receptor 1	Research Diagnostics
379	9834	Corticotropin releasing factor Receptor 1	Santa Cruz
385	14198	Interleukin-8 Receptor B	Biosource
385	14198	Interleukin-8 Receptor B	R&D Systems
385	14198	Interleukin-8 Receptor B	Research Diagnostics
385	14198	Interleukin-8 Receptor B	Santa Cruz
387	14641	Calcitonin Receptor	Santa Cruz
389	16041	C-C Chemokine Receptor 6	Research Diagnostics
389	16041	C-C Chemokine Receptor 6	Santa Cruz
391	16599	Smoothened	Research Diagnostics
391	16599	Smoothened	Santa Cruz
397	17535	Gaba(b) Receptor 1	Alpha Diagnostic Int.
397	17535	Gaba(b) Receptor 1	Calbiochem
397	17535	Gaba(b) Receptor 1	Chemicon
397	17535	Gaba(b) Receptor 1	Santa Cruz
423	37498	Xenotropic and Polytropic Retrovirus Receptor (XPR1)	Santa Cruz
435	54053	Gaba(b) Receptor 2	Alpha Diagnostic Int.
435	54053	Gaba(b) Receptor 2	Chemicon
439	56923	Muscarinic acetylcholine Receptor M3	Biogenesis
439	56923	Muscarinic acetylcholine Receptor M3	Santa Cruz
457	152201	Thyrotropin Receptor	DPC Biermann/Acris
457	152201	Thyrotropin Receptor	Santa Cruz
459	152245	C-C Chemokine Receptor 2	Research Diagnostics
459	152245	C-C Chemokine Receptor 2	Santa Cruz
461	152299	Interleukin-8 Receptor A	Biosource
462	152299	Interleukin-8 Receptor A	Biosource
461	152299	Interleukin-8 Receptor A	R&D Systems
462	152299	Interleukin-8 Receptor A	R&D Systems
461	152299	Interleukin-8 Receptor A	Research Diagnostics
462	152299	Interleukin-8 Receptor A	Research Diagnostics
461	152299	Interleukin-8 Receptor A	Santa Cruz
462	152299	Interleukin-8 Receptor A	Santa Cruz
468	159973	Vasoactive Intestinal Polypeptide Receptor 1	Exalpa Biologicals
470	160040	Vasoactive Intestinal Polypeptide Receptor 2	Exalpa Biologicals
472	160055	Motilin Receptor (GPR38)	Santa Cruz

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503	160228	T-Cell Death-Associated Gene 8 (GPR65)	Santa Cruz
507	160312	Sphingolipid Receptor Edg5	Exalpha Biologicals
515	160329	Proteinase-Activated Receptor 4	Santa Cruz
535	161214	Galanin Receptor GalR3	Alpha Diagnostic Int.
537	161221	Urotensin-II Receptor (GPR14)	Santa Cruz
546	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Cayman
548	177191	Histamine H3 Receptor	Alpha Diagnostic Int.
548	177191	Histamine H3 Receptor	Chemicon
552	180956	Lysophosphatidic Acid Receptor Edg7	Exalpha Biologicals
562	189900	Sphingolipid Receptor Edg8	Exalpha Biologicals
628	190774	Histamine H4 Receptor	Alpha Diagnostic Int.
628	190774	Histamine H4 Receptor	Chemicon
636	190955	Leukotriene B4 Receptor BLT1	Cayman